

**AMPEX**

1809009

VOL. IV

Preliminary Manual

**AVR-1**

**Videotape Recorder**

Operation and Maintenance Manual



DRAWING UPDATE PACKAGE

This update package is to be collated  
into Preliminary Manual Number 1809009  
originally issued July 1970

**AMPEX**

1809009

**VOL. IV**

Preliminary Manual

**AVR-1**  
**Videotape Recorder**  
Operation and Maintenance Manual

**ISSUED: JULY 1970**

**UPDATED: FEBRUARY 1971**



**AUDIO SYSTEM  
MODULES 126-130**



AUDIO & CUE RECORD PRINTED WIRING ASSEMBLY (MODULE 126/130)					CATALOG NO.	1364323	SHEET 1 OF 3						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
3	1364325	2N4093		SCHEMATIC		REF							
5	1367485-01			LABEL, Jumper Placement		1							
6	1363789-01			FRAME, Module		1							
7	1363791-01			HANDLE, Printed Wiring Board		1							
9	1365046-01			COVER, Module		2							
11	473-325			SCREW, Cross-Recessed, assembled washer, pan head, 4-40 x .312		1							
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4							
15	501-008			WASHER, Plain, #4		4							
16	501-712			WASHER, Flat, brass, .032 thick		1							
17	143-989		J8	CONNECTOR, Coaxial, plug, 50 ohm		1							
18	148-022		TP1-5	TIP JACK		5							
19	1364147-01		T1	TRANSFORMER		1							
20	013-650		CR2-5	DIODE		4							
21	013-689		CR1, 6-9	DIODE.		5							
24	014-247		Q35, 38	TRANSISTOR.		2							
25	014-248		Q13-15, 25, 33	TRANSISTOR		5							
26	014-364		Q29	TRANSISTOR.		1							
27	014-383		Q5, 10, 11, 16, 22, 26, 27, 30, 36	TRANSISTOR		9							
28	014-387		Q21, 31	TRANSISTOR.		2							
30	014-600		Q7-9	TRANSISTOR		3							
31	014-617		Q4, 6, 12, 18, 19, 23, 24, 37	TRANSISTOR		8							
32	014-672		Q1-3, 17, 32	TRANSISTOR, Dual,		5							
33	580-133		Q20, 28, 34	TRANSISTOR		3							
36	030-223		C3, 4, 8, 9, 11, 12, 17, 22, 29	CAPACITOR, Ceramic, 2.2μF, 25V, 20%		9							
37	034-177		C31	CAPACITOR, Mica, 100PF, 500V, 5%		1							
38	034-207		C25	CAPACITOR, Mica, 24PF, 500V, 5%		1							
39	034-298		C14	CAPACITOR, Mica, 390PF, 500V, 1%		1							
40	034-320		C10	CAPACITOR, Mica, 750PF, 300V, 5%		1							
41	034-373		C13	CAPACITOR, Mica, 2700PF, 500V, 1%		1							
42	034-517		C15	CAPACITOR, Mica, 910PF, 100V, 1%		1							
44	034-962		C16	CAPACITOR, Mica, 33PF, 500V, 5%		1							
45	035-817		C23	CAPACITOR, Mylar, .015μF, 50V, 5%		1							
46	035-893		C24	CAPACITOR, Mylar, .1μF, 50V, 5%		1							
47	037-219		C19	CAPACITOR, Tantalum, 6.8μF, 35V, 10%		1							
48	037-728		C20	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		1							
50	037-736		C6, 7	CAPACITOR, Tantalum, 22μF, 35V, 10%		2							
51	037-740		C5, 27	CAPACITOR, Tantalum, 33μF, 10V, 10%		2							
52	037-745		C21	CAPACITOR, Tantalum, 47μF, 6V, 10%		1							
53	037-746		C2, 28	CAPACITOR, Tantalum, 47μF, 20V, 10%		2							
54	037-985		C1, 26	CAPACITOR, Tantalum, 15μF, 20V, 10%		2							
56	055-167		C30	CAPACITOR, Mylar, .0033μF, 50V, 5%		1							
57	055-729		C18	CAPACITOR, Mylar, .15μF, 50V, 2%		1							
60	041-001		R69	RESISTOR, Fixed, 5.1K ohm, 1/2W, 5%		1							

X1364323D



AUDIO & CUE RECORD PRINTED WIRING ASSEMBLY (MODULE 126/130)				CATALOG NO. 1364323		SHEET 2 OF 3					
						NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
61	041-009		R41	RESISTOR, Fixed, 1.8K ohm, 1/2W, 5%		1					
62	041-010		R87	RESISTOR, Fixed, 2K ohm, 1/2W, 5%		1					
63	041-012		R94	RESISTOR, Fixed, 4.3K ohm, 1/2W, 5%		1					
64	041-014		R30,31,32,38,67,89	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		6					
65	041-015		R37,49	RESISTOR, Fixed, 27K ohm, 1/2W, 5%		2					
66	041-016		R82,93	RESISTOR, Fixed, 22K ohm, 1/2W, 5%		2					
67	041-017		R70,85	RESISTOR, Fixed, 33K ohm, 1/2W, 5%		2					
69	041-020		R26-28	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		3					
70	041-023		R39	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		1					
71	041-900		R51	RESISTOR, Fixed, 620K ohm, 1/2W, 5%		1					
72	041-245		R62-64	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		3					
73	041-246		R68	RESISTOR, Fixed, 82K ohm, 1/2W, 5%		1					
75	041-254		R92	RESISTOR, Fixed, 15K ohm, 1/2W, 5%		1					
76	041-286		R71,81,100	RESISTOR, Fixed, 1 megohm, 1/2W, 5%		3					
77	041-303		R66	RESISTOR, Fixed, 3.9K ohm, 1/2W, 5%		1					
78	041-310		R55,78	RESISTOR, Fixed, 1/2W, 5%, 390K ohm		2					
79	041-329		R79,90	RESISTOR, Fixed, 330 ohm, 1/2W, 5%		2					
80	041-330		R80	RESISTOR, Fixed, 6.8K ohm, 1/2W, 5%		1					
81	041-331		R35	RESISTOR, Fixed, 3.3K ohm, 1/2W, 5%		1					
82	041-410		R104	RESISTOR, Fixed, 1K ohm, 1/4W, 5%		1					
83	041-343		R95	RESISTOR, Fixed, 680 ohm, 1/2W, 5%		1					
84	041-358		R52	RESISTOR, Fixed, 62K ohm, 1/2W, 5%		1					
85	041-361		R53	RESISTOR, Fixed, 7.5K ohm, 1/2W, 5%		1					
86	041-362		R40	RESISTOR, Fixed, 360 ohm, 1/2W, 5%		1					
87	041-462		R99,103	RESISTOR, Fixed, 1.3K ohm, 1/2W, 5%		2					
90	041-528		R98	RESISTOR, Fixed, 300 ohm, 1/2W, 5%		1					
91	041-535		R65	RESISTOR, Fixed, 30K ohm, 1/2W, 5%		1					
92	041-616		R83,84	RESISTOR, Fixed, 3.9 megohm, 1/2W, 5%		2					
94	042-475		R96,97,101,102	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1%		4					
95	042-481		R23,25	RESISTOR, Metal Film, 2.74K ohm, 1/4W, 1%		2					
96	042-483		R50,54	RESISTOR, Metal Film, 15K ohm, 1/4W, 1%		2					
97	048-259		R88	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		1					
98	048-456		R36,44	RESISTOR, Metal Film, 53.6K ohm, 1/4W, 1%		2					
100	048-618		R60,61	RESISTOR, Metal Film, 2K ohm, 1/4W, 1%		2					
101	048-625		R14	RESISTOR, Metal Film, 150 ohm, 1/4W, 1%		1					
102	048-657		R7,8	RESISTOR, Metal Film, 24.9K ohm, 1/4W, 1%		2					
103	048-790		R10,11	RESISTOR, Metal Film, 37.4K ohm, 1/4W, 1%		2					
104	048-861		R74	RESISTOR, Metal Film, 3.92K ohm, 1/4W, 1%		1					
106	057-042		R18,73,91	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		3					

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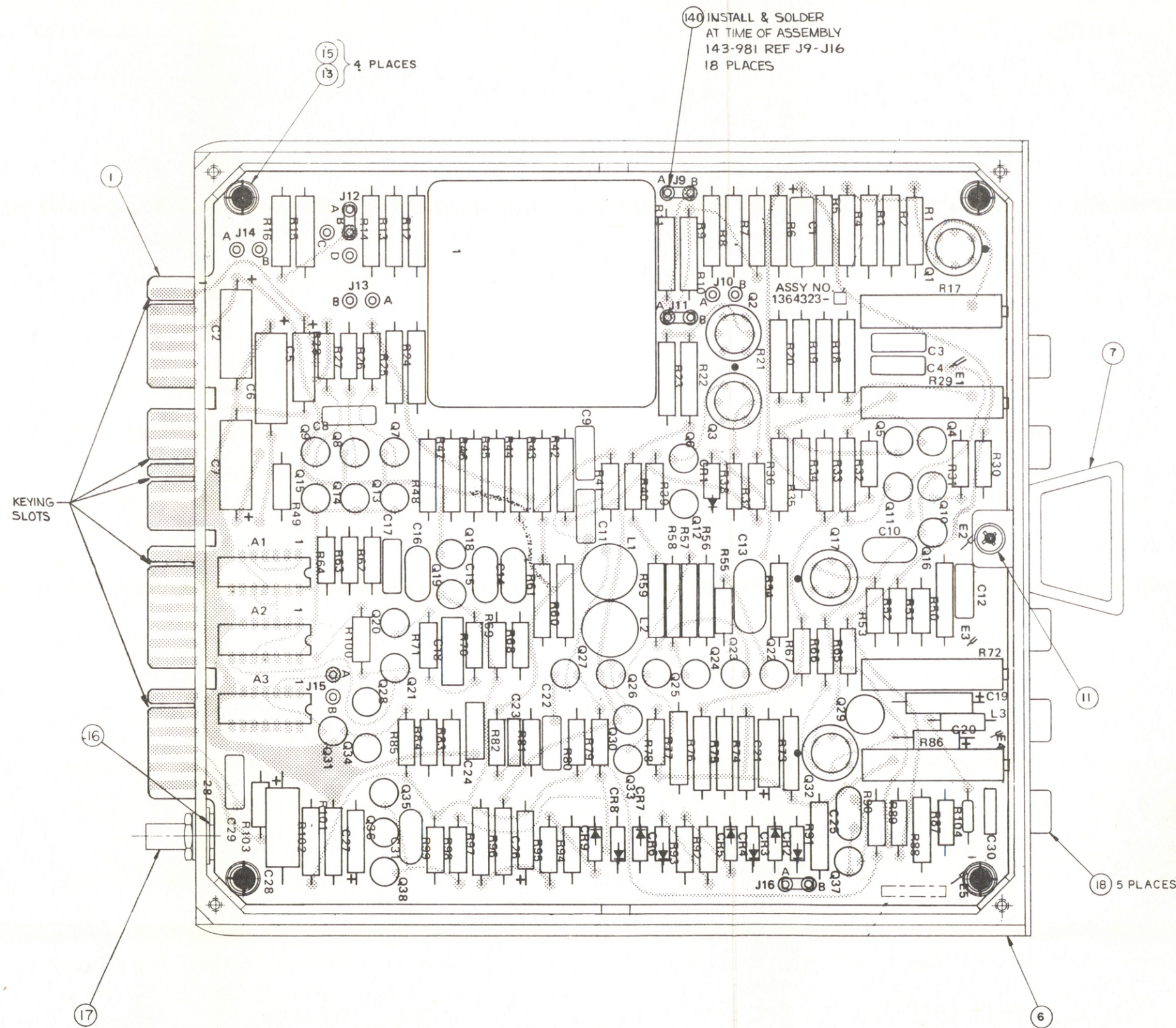
AUDIO & CUE RECORD PRINTED WIRING ASSEMBLY						CATALOG NO. 1364323		SHEET 3 OF 3					
								NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
107	057-256	MC836	R15,16	RESISTOR, Metal Film, 7.5K ohm, 1/4W, 1%		2							
108	057-507		R4-6	RESISTOR, Metal Film, 12.7K ohm, 1/4W, 1%		3							
109	057-675		R2,3,20,21	RESISTOR, Metal Film, 301 ohm, 1/4W, 1%		4							
111	057-691		R22	RESISTOR, Metal Film, 174 ohm, 1/4W, 1%		1							
114	057-799		R19,34,43,57,77	RESISTOR, Metal Film, 13.3K ohm, 1/4W, 1%		5							
115	057-824		R9	RESISTOR, Metal Film, 18,7K ohm, 1/4W, 1%		1							
116	057-942		R58	RESISTOR, Metal Film, 14.7K ohm, 1/4W, 1%		1							
117	062-255		R12	RESISTOR, Metal Film, 1020 ohm, 1/4W, 1%		1							
119	062-261		R1,56	RESISTOR, Metal Film, 6.19K ohm, 1/4W, 1%		2							
120	062-294		R13	RESISTOR, Metal Film, 392 ohm, 1/4W, 1%		1							
121	062-299		R24,33,42,45-48,59,76	RESISTOR, Metal Film, 26.7K ohm, 1/4W, 1%		9							
122	062-355		R75	RESISTOR, Metal Film, 2.80K ohm, 1/4W, 1%		1							
124	058-170		R72,86	RESISTOR, Variable, 10K ohm		2							
125	044-616		R17,29	RESISTOR, Variable, 50K ohm		2							
126	051-579		L3	INDUCTOR, 47MH, ±5%		1							
127	540-168		L1,2	INDUCTOR, 200MH, ±1%		2							
129	014-712		Q1-3,17,32	TRANSISTOR, Mounting Pad, dual		5							
130	280-130		Q4-16,18-28,30,31,33,34,36,37	TRANSISTOR, Mounting Pad		30							
131	280-998		Q35,38,29	TRANSISTOR, Mounting Pad		3							
134	586-152		A1-3	INTEGRATED CIRCUIT		3							
140	132-981		J9A, B; J10A, B; J11A, B; J12A, B, C, D; J15A, B; J16A, B; J13A, B; J14A, B	CONNECTOR, Jack		18							
142	602-012		SHORTING PLUG		4								

X1364323D

10-423/424



AMPEX



Audio and Cue Record Printed Wiring Assembly  
(Modules 126 and 130) Dwg. No. 1364323

AUDIO & CUE PLAYBACK PRINTED WIRING ASSEMBLY (MODULE 127/129)						CATALOG NO. 1364320		SHEET 1 OF 3			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
3	1364322			SCHEMATIC		REF					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
9	1365671-01			COVER, Module		-					
11	471-062			SCREW, Cross-Recessed, pan head, 4-40 x .375		4					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4					
14	473-325			SCREW, Assembled Washer, pan head, 4-40 x .312		1					
15	496-004			NUT, Assembled Washer, 4-40		4					
16	501-008			WASHER, Plain, #4		16					
17	501-712			WASHER, Flat, brass, .032 thick		1					
18	143-989		J8	CONNECTOR, Coaxial, plug, 50 ohm		1					
19	148-022		TP1-6	TIP JACK		6					
21	013-650		CR2,3	DIODE		2					
22	013-689		CR1,4	DIODE		2					
25	014-383		Q4,10,18-21,25,28,29,33,35,45,47,48	TRANSISTOR		14					
26	014-387		Q31,32,36,41,43	TRANSISTOR		5					
27	014-617		Q1,3,5,9,37,39,46	TRANSISTOR		7					
28	014-672		Q2,6,7,8,27,40	TRANSISTOR, Dual		6					
29	014-720	2N3740	Q17	TRANSISTOR		1					
30	014-947	2N3766	Q16	TRANSISTOR		1					
31	580-133	2N4093	Q11-15,22-24,30,34,38,42,44	TRANSISTOR		13					
32	580-166	2N5322	Q26	TRANSISTOR		1					
35	030-223		C11,12,15-17,29,30,35,37,55,56,59,60	CAPACITOR, Ceramic, 2.2μF, 25V, 20%		13					
36	034-184		C28,38	CAPACITOR, Mica, 68PF, 500V, 5%		2					
37	034-291		C10,39	CAPACITOR, Mica, 1600PF, 500V, 5%		2					
38	034-320		C1,47	CAPACITOR, Mica, 750PF, 300V, 5%		2					
39	034-373		C14,54	CAPACITOR, Mica, 2700PF, 500V, 1%		2					
40	034-718		C34	CAPACITOR, Mica, 510PF, 500V, 5%		1					
41	034-898		C2,6,49,53	CAPACITOR, Mica, 33PF, 500V, 1%		4					
42	034-918		C3-5,50-52	CAPACITOR, Mica, 68PF, 500V, 1%		6					
43	034-930		C58	CAPACITOR, Mica, 680PF, 300V, 5%		1					
44	035-598		C44	CAPACITOR, Mylar, .047μF, 50V, 5%		1					
45	035-734		C13,57	CAPACITOR, Mylar, .01μF, 50V, 5%		-					
46	055-135		C7	CAPACITOR, Mylar, .0027μF, 50V, 5%		1					
47	055-729		C21,22,26,27,32,33,40-43	CAPACITOR, Mylar, .15μF, 50V, 2%		10					
48	037-736		C18,25,31,45,24	CAPACITOR, Tantalum, 22μF, 35V, 10%		5					
49	037-740		C9	CAPACITOR, Tantalum, 33μF, 10V, 10%		1					
50	037-745		C20	CAPACITOR, Tantalum, 47μF, 6V, 10%		1					
51	037-746		C19,23,48,46	CAPACITOR, Tantalum, 47μF, 20V, 10%		4					

X1364320D



AUDIO & CUE PLAYBACK PRINTED WIRING ASSEMBLY (MODULE 127/129)						CATALOG NO. 1364320		SHEET 2 OF 3						
								NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-03								
52	037-985		C8	CAPACITOR, Tantalum, 15μF, 20V, 10%		1								
53	037-028		C36	CAPACITOR, Tantalum, 22μF, 15V, 10%		1								
54	035-734		C13, 57, 61	CAPACITOR, Mylar, .01μF, 50V, 5%		3								
55	051-443		L1, 7	INDUCTOR, 33MH, 5%		2								
56	051-673		L6, 12	INDUCTOR, 82MH, 5%		2								
57	540-168		L2-5, 8-11	INDUCTOR, 200MH, 1%		8								
60	041-393		R48-51, 53, , 69, 71, 72, 91, 93, 100, 117, 118	RESISTOR, Fixed, 1 megohm, 1/4W, 5%		14								
61	041-407		R27, 131	RESISTOR, Fixed, 3.3K ohm, 1/4W, 5%		2								
62	041-408		R25, 45, 81, 82, 90 102, 104, 130	RESISTOR, Fixed, 10K ohm, 1/4W, 5%		8								
63	041-411		R125	RESISTOR, Fixed, 47K ohm, 1/4W, 5%		1								
64	041-414		R24, 89	RESISTOR, Fixed, 2.2K ohm, 1/4W, 5%		2								
65	041-415		R126, 127	RESISTOR, Fixed, 68K ohm, 1/4W, 5%		2								
66	041-419		R57, 61, 83	RESISTOR, Fixed, 100 ohm, 1/4W, 5%		3								
67	041-440		R43, 109	RESISTOR, Fixed, 1.2K ohm, 1/4W, 5%		2								
68	041-453		R70, 75	RESISTOR, Fixed, 82K ohm, 1/4W, 5%		2								
69	041-483		R35, 73, 74	RESISTOR, Fixed, 27K ohm, 1/4W, 5%		-								
70	041-002		R59, 60	RESISTOR, Fixed, 10ohm, 1/2W, 5%		2								
71	041-505		R23, 129	RESISTOR, Fixed, 620 ohm, 1/4W, 5%		2								
72	041-508		R1, 36, 84, 110	RESISTOR, Fixed, 20K ohm, 1/4W, 5%		4								
73	041-538		R47, 68	RESISTOR, Fixed, 6.2K ohm, 1/4W, 5%		2								
74	041-560		R78, 79	RESISTOR, Fixed, 2K ohm, 1/4W, 5%		2								
75	041-568		R46, 52, 54, 67, 116, 119	RESISTOR, Fixed, 4.7 megohm, 1/4W, 5%		6								
76	041-570		R44, 66	RESISTOR, Fixed, 2.4K ohm, 1/4W, 5%		2								
77	041-012		R37, 85	RESISTOR, Fixed, 4.3K ohm, 1/2W, 5%		2								
78	041-549		R128	RESISTOR, Fixed, 13K ohm, 1/4W, 5%		1								
79	041-788		R6, 92, 94-96, 103, 111	RESISTOR, Fixed, 62K ohm, 1/4W, 5%		7								
80	041-801		R80	RESISTOR, Fixed, 22 megohm, 1/4W, 5%		1								
81	041-483		R35	RESISTOR, Fixed, 27K ohm, 1/4W, 5%		1								
82	041-612		R73, 74	RESISTOR, Fixed, 30K ohm, 1/4W, 5%		2								
84	042-475		R97	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1%		1								
85	042-481		R32, 33	RESISTOR, Metal Film, 2.74K ohm, 1/4W, 1%		2								
86	042-482		R39, 40, 86, 87	RESISTOR, Metal Film, 47.5K ohm, 1/4W, 1%		4								
87	042-483		R64, 65	RESISTOR, Metal Film, 15K ohm, 1/4W, 1%		2								
88	048-499		R99	RESISTOR, Metal Film, 619 ohm, 1/4W, 1%		1								
89	048-657		R121	RESISTOR, Metal Film, 24.9K ohm, 1/4W, 1%		1								
90	048-861		R2, 108	RESISTOR, Metal Film, 3.92K ohm, 1/4W, 1%		2								
91	057-042		R55, 98	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		2								
92	057-499		R56	RESISTOR, Metal Film, 866 ohm, 1/4W, 1%		1								

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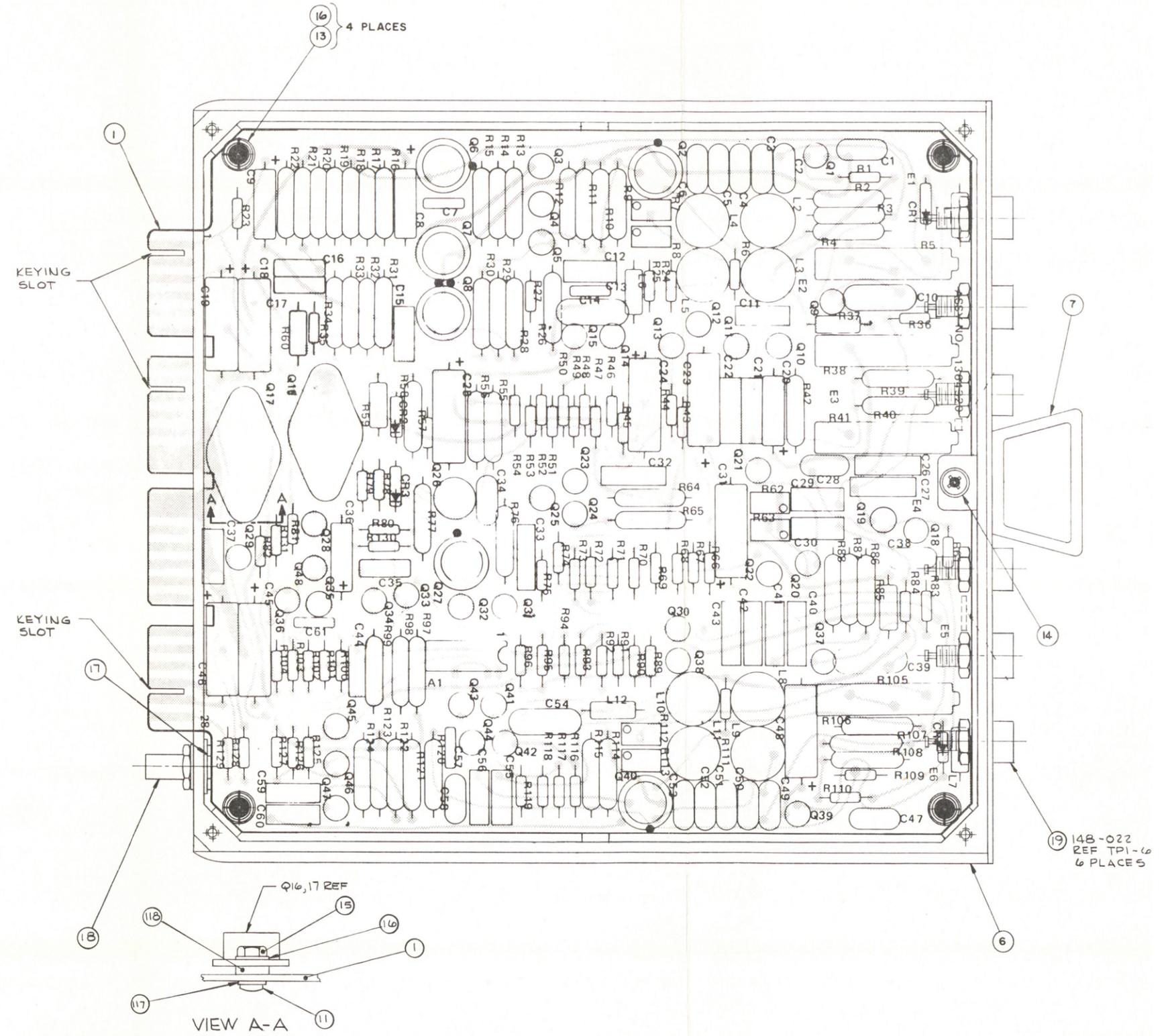
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AUDIO & CUE PLAYBACK PRINTED WIRING ASSEMBLY (MODULE 127/129)					CATALOG NO. 1364320		SHEET 3 OF 3						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
93	057-507	MC836	R17,18,34	RESISTOR, Metal Film, 12.7K ohm, 1/4W, 1%		3							
94	048-694		R14,15,28,29	RESISTOR, Metal Film, 604 ohm, 1/4W, 1%		4							
95	048-670		R31	RESISTOR, Metal Film, 237 ohm, 1/4W, 1%		1							
96	062-299		R12,26	RESISTOR, Metal Film, 26.7K ohm, 1/4W, 1%		2							
97	057-803		R76,77	RESISTOR, Metal Film, 49.9K ohm, 1/4W, 1%		2							
98	057-912		R20,21	RESISTOR, Metal Film, 1.65K ohm, 1/4W, 1%		2							
99	057-384		R16	RESISTOR, Metal Film, 2.67K ohm, 1/4W, 1%		1							
100	057-920		R19,22,123	RESISTOR, Metal Film, 11K ohm, 1/4W, 1%		3							
101	057-983		R120	RESISTOR, Metal Film, 13.7K ohm, 1/4W, 1%		1							
102	062-261		R9,115	RESISTOR, Metal Film, 6.19K ohm, 1/4W, 1%		2							
103	062-274		R3,4,11,106,107,122	RESISTOR, Metal Film, 53.6K ohm, 1/4W, 1%		6							
104	062-296		R42,88	RESISTOR, Metal Film, 23.7K ohm, 1/4W, 1%		2							
105	062-298		R10,114	RESISTOR, Metal Film, 17.8K ohm, 1/4W, 1%		2							
106	062-299		R13,30,124	RESISTOR, Metal Film, 26.7K ohm, 1/4W, 1%		3							
107	048-951		R58	RESISTOR, Metal Film, 61.9 ohm, 1/4W, 1%		1							
110	044-741		R5	RESISTOR, Variable, 1W, 20K ohm, 10%		1							
111	044-741		R41	RESISTOR, Variable, 1W, 20K ohm, 10%		1							
112	058-170		R38	RESISTOR, Variable, 1W, 10K ohm, 10%		1							
113	058-421		R8,60,63,112	RESISTOR, Variable, 1W, 20K ohm, 10%		4							
114	058-422		R7,113	RESISTOR, Variable, 1W, 2K ohm, 10%		2							
115	058-423		R105	RESISTOR, Variable, 1W, 200K ohm, 10%		1							
117	501-169			WASHER, Plain, #4		4							
118	501-730			WASHER, Plain, non-metallic		4							
119	586-152		A1	INTEGRATED CIRCUIT		1							
122	014-712		Q2,6-8,27,40	TRANSISTOR, Mounting Pad, dual		6							
123	280-130		Q1,3-5,9-15,18-25,28-39,41-48	TRANSISTOR, Mounting Pad		39							
124	280-998		Q26	TRANSISTOR, Mounting Pad		1							

X1364320D

10-429/430

**AMPEX**



*Audio and Cue Playback Printed Wiring Assembly  
(Modules 127 and 129) Dwg. No. 1364320*



AUDIO AND CUE MONITOR AND TEST PRINTED WIRING ASSEMBLY (MODULE 128)						CATALOG NO. 1364332		SHEET 1 OF 3			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
3	1364334	2N4093		SCHEMATIC		REF					
5	1368188-23			LABEL		1					
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		1					
9	501-008			WASHER, Plain, #4		1					
11	013-172			VR1	DIODE, Silicon, zener		1				
13	013-689			CR1-7,10-17	DIODE, Silicon		15				
15	014-247			Q8,10,11,15,17	TRANSISTOR		5				
16	014-383			Q1,4,13,14,19-22	TRANSISTOR		8				
17	014-505			Q7,23-32,47-50	TRANSISTOR		15				
18	014-600			Q3,33-42	TRANSISTOR		11				
19	014-617			Q16,18	TRANSISTOR		2				
21	580-133			Q2,5,6,12,43-46	TRANSISTOR		8				
24	030-101			C6,7	CAPACITOR, Ceramic, .47μF, 25V, 20%		2				
25	030-223			C14-17	CAPACITOR, Ceramic, 2.2μF, 25V, 20%		4				
31	034-924			C33,34	CAPACITOR, Mica, 3000PF, 500V, 1%		2				
32	035-730			C31,32	CAPACITOR, Mylar, .0047μF, 50V, 5%		2				
35	037-740			C22,23,26	CAPACITOR, Tantalum, 33μF, 10V, 10%		3				
36	037-746			C24,25,27,36	CAPACITOR, Tantalum, 47μF, 20V, 10%		4				
37	055-131			C29,30	CAPACITOR, Mylar, .039μF, 50V, 5%		2				
38	055-167			C2	CAPACITOR, Mylar, .0033μF, 50V, 5%		1				
39	041-443			R108,118	RESISTOR, Composition, 1/4W, 39K ohm, 5%		2				
40	041-511			R110	RESISTOR, Composition, 1/4W, 3.9K ohm, 5%		1				
41	041-010			R31	RESISTOR, Composition, 1/2W, 2K ohm, 5%		1				
42	041-014			R70,71,73,74,76,77,79,80,82,83,85,86,88,89,91,92,94,95,97,98	RESISTOR, Composition, 10K ohm, 1/2W, 5%		20				
46	041-478			R33,34,40,41	RESISTOR, Composition, 1.1K ohm, 1/2W, 5%		4				
48	041-507			R1,7,8	RESISTOR, Composition, 5.6K ohm, 1/4W, 5%		3				
49	041-508			R4,22	RESISTOR, Composition, 20K ohm, 1/4W, 5%		2				
50	041-612			R16	RESISTOR, Composition, 30K ohm, 1/4W, 5%		1				
51	041-751			R38,45	RESISTOR, Composition, 36K ohm, 1/4W, 5%		2				
52	041-753			R18	RESISTOR, Composition, 62K ohm, 1/4W, 5%		1				
52	041-575		R15	RESISTOR, Composition, 130K ohm, 1/4W, 5%		1					
53	041-758		R21	RESISTOR, Composition, 200K ohm, 1/4W, 5%		1					

X1364332E

AUDIO AND CUE MONITOR AND TEST PRINTED WIRING ASSEMBLY (MODULE 128)						CATALOG NO. 1364332		SHEET 2 OF 3			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
54	041-393	MC836P MC862P TO-5	R11	RESISTOR, Composition, 1 megohm, 1/4W, 5%		1					
56	041-334		R32, 39	RESISTOR, Composition, 200 ohm, 1/2W, 5%		2					
57	044-873		R20	RESISTOR, Variable, 1W, 1K ohm, 10%		1					
59	048-860		R50	RESISTOR, Metal Film, 1.3K ohm, 1/4W, 1%		1					
61	057-794		R51	RESISTOR, Metal Film, 2.61K ohm, 1/4W, 1%		1					
63	057-649		R49	RESISTOR, Metal Film, 3.65K ohm, 1/4W, 1%		1					
65	057-670		R6	RESISTOR, Metal Film, 12.4K ohm, 1/4W, 1%		1					
66	048-901		R48	RESISTOR, Metal Film, 16.2K ohm, 1/4W, 1%		1					
67	062-299		R5, 35, 37, 42, 44, 52-55, 60-69, 72, 75, 78, 81, 84, 87, 90, 93, 96, 99	RESISTOR, Metal Film, 26.7K ohm, 1/4W, 1%		29					
71	042-466		R36, 43	RESISTOR, Metal Film, 27.4K ohm, 1/4W, 1%		2					
73	586-152		A6, 14, 15	INTEGRATED CIRCUIT		3					
75	586-155		A3, 9	INTEGRATED CIRCUIT		2					
79	280-998		Q8, 10, 11, 15, 17	MOUNTING PAD, Transistor		5					
84	014-672		Q51	TRANSISTOR, Dual		1					
85	030-098		C40	CAPACITOR, Ceramic, .22μF, 25V, 20%		1					
86	034-199		C5	CAPACITOR, Mica, 300PF, 500V, 5%		1					
87	034-215		C20	CAPACITOR, Mica, 10PF, 500V, 5%		1					
88	034-970		C4	CAPACITOR, Mica, 1500PF, 500V, 5%		1					
90	037-728		C13	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		1					
91	035-893		C1, 3, 9, 18, 28, 35, 39	CAPACITOR, Mylar, .1μF, 50V, 5%		7					
92	041-409		R17, 19	RESISTOR, Composition, 15K ohm, 1/4W, 5%		2					
93	041-408		R2, 3, 23, 100-107	RESISTOR, Composition, 10K ohm, 1/4W, 5%		11					
94	041-411		R112, 114	RESISTOR, Composition, 47K ohm, 1/4W, 5%		2					
95	041-496		R47	RESISTOR, Composition, 10 ohm, 1/4W, 5%		1					
96	041-561		R116, 117	RESISTOR, Composition, 5.1K ohm, 1/4W, 5%		2					
97	041-774		R113	RESISTOR, Composition, 1.5 megohm, 1/4W, 5%		1					
98	041-562		R109, 111	RESISTOR, Composition, 43K ohm, 1/4W, 5%		2					
99	041-768		R119	RESISTOR, Composition, 750K ohm, 1/4W, 5%		1					
100	041-781		R115	RESISTOR, Composition, 3 megohm, 1/4W, 5%		1					
101	048-648		R46	RESISTOR, Metal Film, 3.83K ohm, 1/4W, 1%		1					
102	048-861		R56-59	RESISTOR, Metal Film, 3.92K ohm, 1/4W, 1%		4					

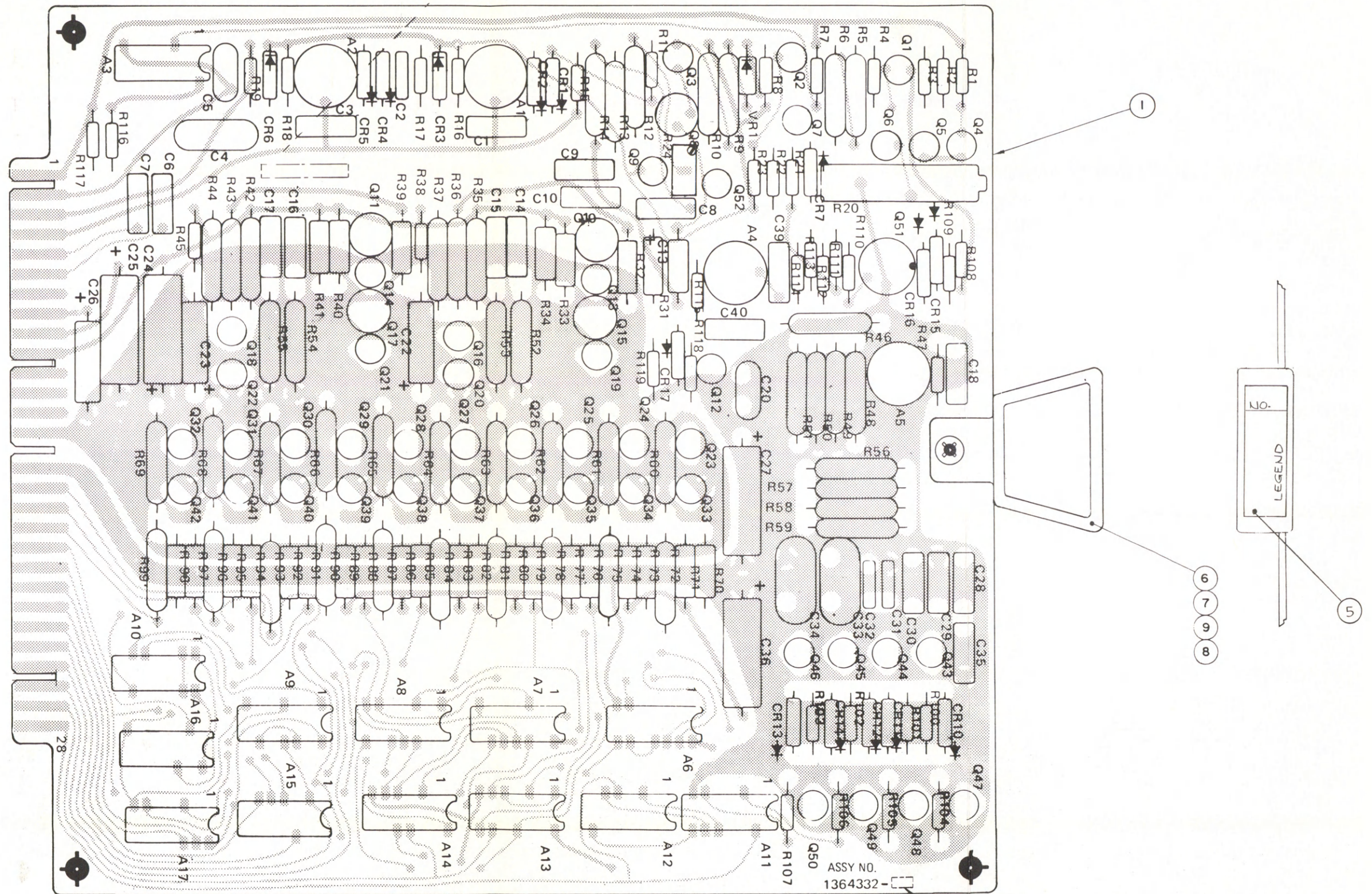
X1364332E

AUDIO AND CUE MONITOR AND TEST PRINTED WIRING ASSEMBLY (MODULE 128)						CATALOG NO. 1364332		SHEET 3 OF 3			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
103	014-712	MC846P	Q51	MOUNTING PAD, Transistor, dual		1					
104	280-173		A1,2,4	MOUNTING PAD, 8 Pin		3					
106	280-174		A5	MOUNTING PAD, 10 Pin		1					
107	586-153		A7,8,10-13,16,17	INTEGRATED CIRCUIT		8					
108	586-161		MC1433G	A5	INTEGRATED CIRCUIT		1				
110	586-269		μA741C	A1,2,4	INTEGRATED CIRCUIT		3				
111	014-506			Q9,52	TRANSISTOR		2				
112	035-853			C10	CAPACITOR, Mylar, .056μF, 50V, 5%		1				
113	035-883			C8	CAPACITOR, Mylar, .068μF, 50V, 5%		1				
114	057-042			R10	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		1				
115	057-256	TO-18	R12	RESISTOR, Metal Film, 7.5K ohm, 1/4W, 1%		1					
116	057-790		R9,13	RESISTOR, Metal Film, 887 ohm, 1/4W, 1%		2					
117	062-390		R14	RESISTOR, Metal Film, 6.65K ohm, 1/4W, 1%		1					
118	058-529		R24	RESISTOR, Variable, 500 ohm, 1W,10%		1					
120	280-130		Q1-7,9,12-14,16,18-50,52	MOUNTING PAD, Transistor		46					

X1364332E

10-435/436





*Audio and Cue Monitor and Test Printed Wiring Assembly  
(Module 128) Dwg. No. 1364332*



**SERVO SYSTEM  
MODULES 131-148**

CONTROL TRACK RECORD & DECODE PRINTED WIRING ASSEMBLY (MODULE 131)					CATALOG NO. 1364266	SHEET 1 OF 2						
					NHA 1366025							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
3	1364268	2N4093		SCHEMATIC		RE F						
4	1368188-24			LABEL, Module		1						
6	1363791-01			HANDLE, Printed Wiring Board		1						
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1						
8	496-004			NUT, Assembled Washer, 4-40		1						
9	501-008			WASHER, Plain, #4		1						
10	173-620		E1-7	TERMINAL		7						
12	013-257		VR1,2	DIODE, Zener, 6.2V,		2						
13	013-689		CR1-4	DIODE								
16	014-248		Q1-3	TRANSISTOR		3						
17	014-505		Q6	TRANSISTOR		1						
18	014-600		Q7	TRANSISTOR		1						
19	014-631		Q4	TRANSISTOR		1						
20	580-133		Q5,8	TRANSISTOR		2						
23	030-094		C7,42,44,47-49	CAPACITOR, Monolithic, 1μF, 25V,20%		6						
24	030-966		C2,3,8,9,15,26,29,32,34,36	CAPACITOR, Ceramic, .01μF, 100V,10%		10						
25	035-596		C1	CAPACITOR, Mylar, .082μF, 50V, 5%		1						
26	035-734		C10,20,27,28,33,35,37,38,39	CAPACITOR, Mylar, .01μF, 50V, 5%		9						
27	035-828		C45,46	CAPACITOR, Mylar, .022μF, 50V, 5%		2						
28	035-893		C5,11,24,31	CAPACITOR, Mylar, .1μF, 50V, 5%		4						
29	035-883		C4,21,22	CAPACITOR, Mylar, .068μF, 50V, 5%		3						
30	037-186		C41,51	CAPACITOR, Tantalum, 120μF, 10V, 10%		2						
31	037-620		C43,50	CAPACITOR, Tantalum, 100μF, 20V, 20%		2						
32	037-740		C23	CAPACITOR, Tantalum, 33μF, 10V, 10%		1						
33	037-985		C6	CAPACITOR, Tantalum, 15μF, 20V, 20%		1						
34	055-156		C14	CAPACITOR, Mylar, .22μF, 50V, 5%		1						
35	055-167		C16-19	CAPACITOR, Mylar, .0033μF, 50V, 5%		4						
36	055-810		C25,40,30	CAPACITOR, Poly, .1μF, 100V, 1%		3						
38	041-394		R12,54,58	RESISTOR, Fixed, 100K ohm, 1/4W, 5%		3						
39	041-406		R19,31,34,52	RESISTOR, Fixed, 22K ohm, 1/4W, 5%		4						
40	041-407		R50	RESISTOR, Fixed, 3.3K ohm, 1/4W, 5%		1						
41	041-408		R3,10,11,18,23,24,36,43,53,55,66,68,69	RESISTOR, Fixed, 10K ohm, 1/4W, 5%		13						
42	041-409		R63	RESISTOR, Fixed, 15K ohm, 1/4W, 5%		1						
43	041-410		R37,64,70,72	RESISTOR, Fixed, 1K ohm, 1/4W, 5%		4						
44	041-411		R21,51	RESISTOR, Fixed, 47K ohm, 1/4W, 5%		2						
45	041-412		R7,22,25,30,35,38-40	RESISTOR, Fixed, 4.7K ohm, 1/4W, 5%		8						
46	041-414		R47,59,60,62	RESISTOR, Fixed, 2.2K ohm, 1/4W, 5%		4						
47	041-425		R6,32,33	RESISTOR, Fixed, 47 ohm, 1/4W, 5%		3						
48	041-426		R61	RESISTOR, Fixed, 68 ohm, 1/4W, 5%		1						
49	041-427		R44	RESISTOR, Fixed, 330 ohm, 1/4W, 5%		1						
50	041-434		R71	RESISTOR, Fixed, 1.8K ohm, 1/4W, 5%		1						
52	041-432		R8	RESISTOR, Fixed, 220K ohm, 1/4W, 5%		1						
53	041-436		R13,48	RESISTOR, Fixed, 18K ohm, 1/4W, 5%		2						
54	041-442		R20,27,42	RESISTOR, Fixed, 2.7K ohm, 1/4W, 5%		3						
55	041-443		R4	RESISTOR, Fixed, 39K ohm, 1/4W, 5%		1						

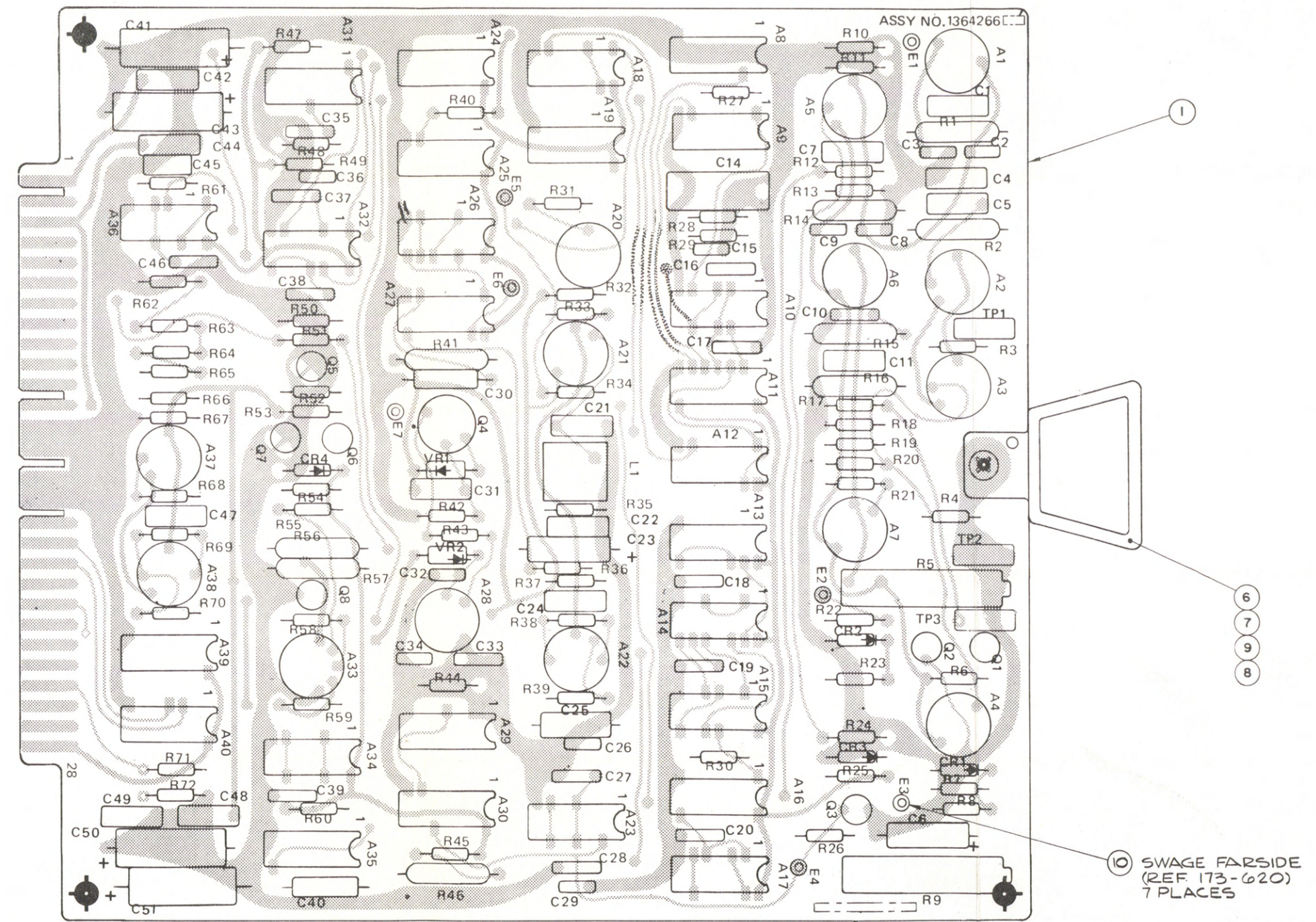
X1364266J



CONTROL TRACK RECORD & DECODE PRINTED WIRING ASSEMBLY (MODULE 131)						CATALOG NO. 1364266		SHEET 2 OF 2			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
56	041-647		R17	RESISTOR, Fixed, 75 ohm, 1/4W, 5%		1					
57	041-653		R26, 29, 45, 49	RESISTOR, Fixed, 39 ohm, 1/4W, 5%		4					
58	041-518		R28, 65	RESISTOR, Fixed, 33K ohm, 1/4W, 5%		2					
59	041-495		R67	RESISTOR, Fixed, 8.2K ohm, 1/4W, 5%		1					
60	042-466		R41	RESISTOR, Metal Film, 27.4K ohm, 1/4W, 1%		1					
61	042-469		R46	RESISTOR, Metal Film, 33.2K ohm, 1/4W, 1%		1					
62	062-773		R15, 16	RESISTOR, Metal Film, 20.5K ohm, 1/4W, 1%		2					
63	057-840		R1, 2, 14	RESISTOR, Metal Film, 7.87K ohm, 1/4W, 1%		3					
64	057-047		R57	RESISTOR, Metal Film, 715 ohm, 1/4W, 1%		1					
65	048-751		R56	RESISTOR, Metal Film, 6.04K ohm, 1/4W, 1%		1					
66	044-741		R5	RESISTOR, Variable, 20K ohm, 1W, 10%		1					
67	058-169		R9	RESISTOR, Variable, 25K ohm, 1W, 10%		1					
69	586-274	MC844P	A25, 27	INTEGRATED CIRCUIT		2					
70	586-152	MC836P	A10, 14, 23, 32, 36, 39	INTEGRATED CIRCUIT		6					
71	586-153	MC846P	A11, 13, 15, 17, 18, 24, 26, 30, 34	INTEGRATED CIRCUIT		9					
72	586-425	MC853P	A8, 16, 19	INTEGRATED CIRCUIT		3					
73	586-261	LM302	A2, 6	INTEGRATED CIRCUIT		2					
74	586-269	F741C	A1, 3-5, 7, 21, 22, 37, 38	INTEGRATED CIRCUIT		9					
75	586-315	NH0002C	A20	INTEGRATED CIRCUIT		1					
76	586-309	F9601	A9, 29, 31, 35	INTEGRATED CIRCUIT		4					
77	586-335	LM306	A28	INTEGRATED CIRCUIT		1					
78	586-336	DM8800	A33	INTEGRATED CIRCUIT		1					
79	586-415	MC857	A12, 40	INTEGRATED CIRCUIT		2					
82	540-063		L1	INDUCTOR, 10H		1					
83	148-028		TP1, 3	CONNECTOR, Printed Circuit, tip jack, white		2					
84	148-052		TP2	CONNECTOR, Printed Circuit, tip jack, black		1					
88	280-130		Q1-3, 5-8	MOUNTING PAD, Transistor		7					
89	280-173		A1-7, 20-22, 28, 37, 38	MOUNTING PAD, Integrated Circuit, 8 pin		13					
90	280-174		A33	MOUNTING PAD, Integrated Circuit, 10 pin		1					
91	014-712		Q4	MOUNTING PAD, Transistor, dual		1					

X1364266J

AMPEX



COMPONENT SIDE

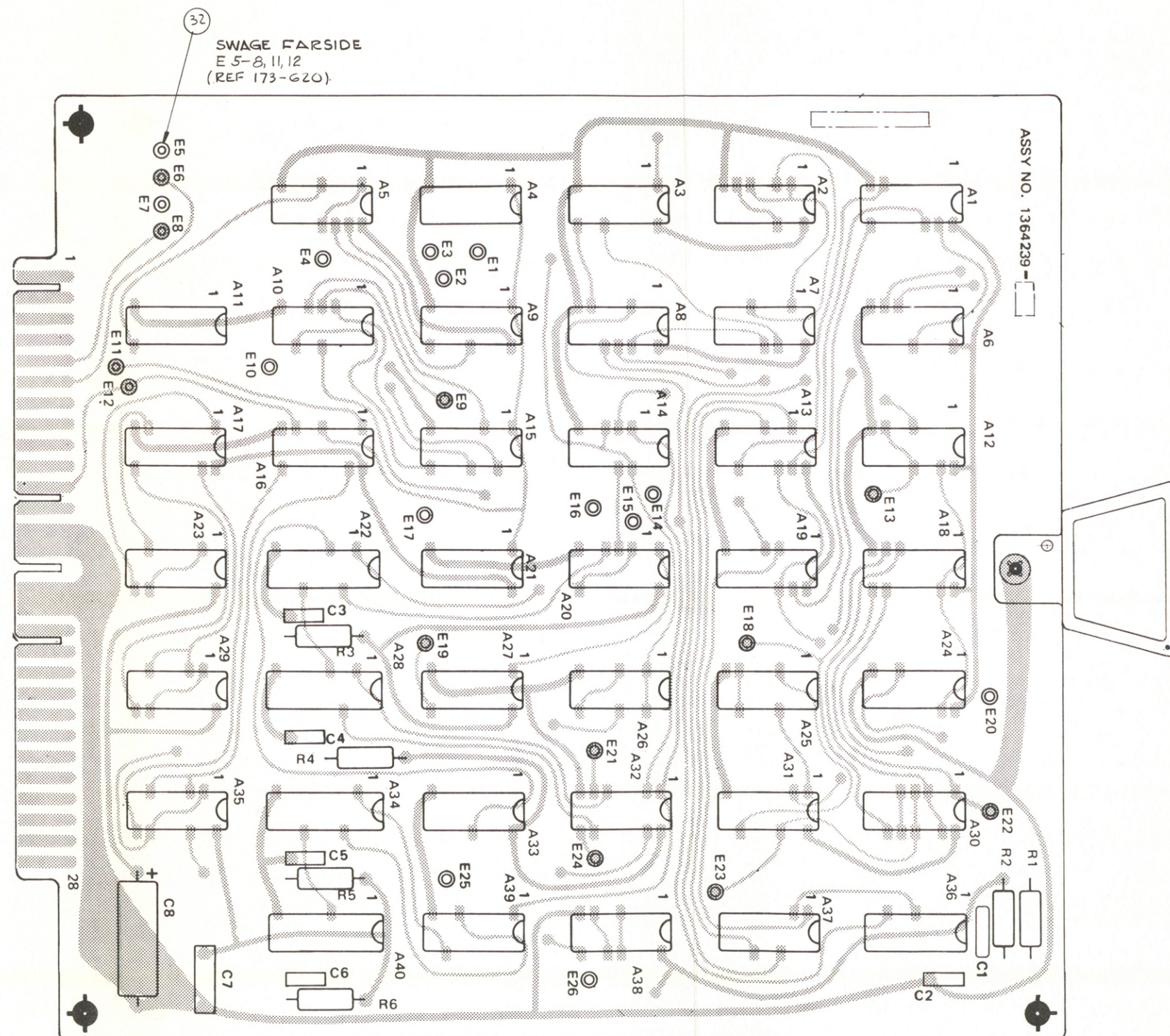
Control Track Record and Decode Printed Wiring Assembly  
(Module 131) Dwg. No. 1364266



CAPSTAN DIGITAL FRAMING PRINTED WIRING ASSEMBLY (MODULE 132)						CATALOG NO. 1364239		SHEET 1 OF 1			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364241			SCHEMATIC		REF					
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		1					
9	501-008			WASHER, Plain, #4		1					
11	030-094		C7	CAPACITOR, Monolithic, 1.0μF, 25V		1					
12	030-966		C2-6	CAPACITOR, Ceramic, .01μF, 100V, 10%		5					
14	037-186		C8	CAPACITOR, Tantalum, 120μF, 10V, 10%		1					
16	041-014		R1	RESISTOR, Fixed, 1/2W, 10K ohm, 5%		1					
17	041-454		R2-6	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		5					
19	035-730		C1	CAPACITOR, Mylar, .0047μF, 50V		1					
21	586-152	MC836	A3,37	INTEGRATED CIRCUIT		2					
22	586-153	MC846	A2,5,7,10,11,13,14,19,23,25,26,29,31,33,35,38	INTEGRATED CIRCUIT		16					
24	586-154	MC852	A4,9,12,15,18,20,21,24,27,32,39	INTEGRATED CIRCUIT		11					
26	586-155	MC862	A1,6,30	INTEGRATED CIRCUIT		3					
27	586-309	F9601	A36	INTEGRATED CIRCUIT		1					
28	586-259	F9304	A22,28,34,40	INTEGRATED CIRCUIT		4					
29	586-415	MC857	A8,16,17	INTEGRATED CIRCUIT		3					
31	143-981		E1-4,9,10,13-26	JACK, Closed Entry		20					
32	173-620		E5-8,11,12	TERMINAL 8		6					

X1364239A

10-443/444



Capstan Digital Framing Printed Wiring Assembly  
(Module 132) Dwg. No. 1364239



ANALOG SLOW FRAMING PRINTED WIRING ASSEMBLY (MODULE 133)					CATALOG NO.	1364977	SHEET 1 OF 2						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364979			SCHEMATIC		REF							
6	1363791-01			HANDLE, Printed Wiring Board		1							
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1							
8	496-004			NUT, Assembled Washer, 4-40		1							
9	501-008			WASHER, Plain, #4		1							
12	013-224		VR1,3	DIODE, Zener, 6.8V, ±5%.		2							
14	013-689		CR1,2	DIODE.		2							
15	013-983		VR2	DIODE, Zener, 5.6V, 5%.		1							
17	014-248		Q1,4	TRANSISTOR.		2							
18	014-600		Q2,6	TRANSISTOR.		2							
19	014-628		Q5	TRANSISTOR, Dual		1							
20	014-712		Q5	MOUNTING PAD, Transistor, dual		1							
23	030-094		C5,6,9,10	CAPACITOR, Monolithic, 1μF, 25V, 20%		4							
24	030-966		C11-14,18,20	CAPACITOR, Ceramic, .01μF, 100V,10%		6							
25	056-292		C2	CAPACITOR, Mica, 500PF, 500V, 5%		1							
27	035-729		C22	CAPACITOR, Mylar, .0015μF, 50V, 5%		1							
28	035-734		C15	CAPACITOR, Mylar, .01μF, 50V, 5%		1							
29	055-133		C1	CAPACITOR, Mylar, .0022μF, 50V, 5%		1							
30	035-853		C23	CAPACITOR, Mylar, .056μF, 50V, 5%		1							
31	035-893		C17	CAPACITOR, Mylar, .1μF, 50V, 5%		1							
33	037-186		C7,8	CAPACITOR, Tantalum, 120μF, 10V, 10%		2							
34	037-620		C3,4	CAPACITOR, Tantalum, 100μF, 20V, 10%		2							
35	041-014		R10,22,23	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		3							
36	041-015		R18	RESISTOR, Fixed, 27K ohm, 1/2W, 5%		1							
37	041-016		R1,2	RESISTOR, Fixed, 22K ohm, 1/2W, 5%		2							
38	041-017		R7,8,11	RESISTOR, Fixed, 33K ohm, 1/2W, 5%		3							
39	041-023		R9	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		1							
40	041-239		R20,21	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		2							
41	041-245		R4,14	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		2							
42	041-278		R13	RESISTOR, Fixed, 2.7K ohm, 1/2W, 5%		1							
43	041-282		R5	RESISTOR, Fixed, 150 ohm, 1/2W, 5%		1							
44	041-329		R3	RESISTOR, Fixed, 330 ohm, 1/2W, 5%		1							
45	041-330		R15	RESISTOR, Fixed, 6.8K ohm, 1/2W, 5%		1							
46	041-331		R6	RESISTOR, Fixed, 3.3K ohm, 1/2W, 5%		1							
47	041-454		R17,19	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		2							
49	057-252		R16	RESISTOR, Metal Film, 33.2K ohm, 1/2W, 1%		1							
50	048-879		R12	RESISTOR, Metal Film, 19.1K ohm, 1/2W, 1%		1							
51	055-156		C21	CAPACITOR, Mylar, .22μF, 50V, 5%		1							
52	055-810		C16,19	CAPACITOR, Poly, .1μF, 1%		2							
55	148-028		TP2-4	TIP JACK, White		3							
56	148-052		TP1	TIP JACK, Black		1							
57	173-620		E3-5,7,9	TERMINAL,Stud, turret,swage 8		5							
58	143-981		E1,2,6,8	JACK, Closed Entry		4							
59	280-130		Q1-4,6	MOUNTING PAD, Transistor		5							
60	280-173		A32,35	MOUNTING PAD, Integrated Circuit, 8 pin		2							

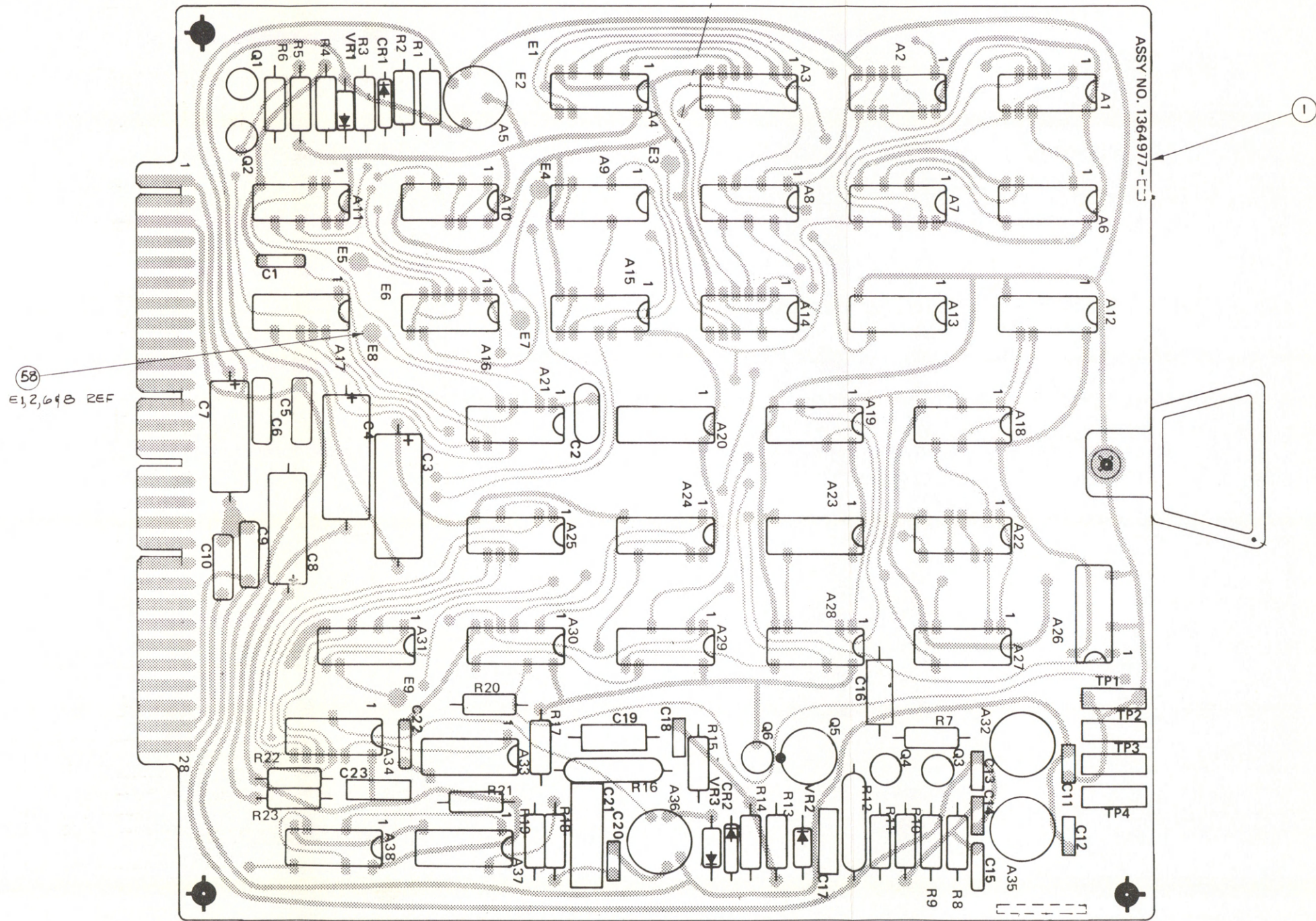
X1364977D

ANALOG SLOW FRAMING PRINTED WIRING ASSEMBLY (MODULE 133)					CATALOG NO. 1364977		SHEET 2 OF 2							
							NHA 1366025							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
61	280-174		A5,36	MOUNTING PAD, Integrated Circuit, 10 pin		2								
63	580-133	2N4093 TO-18	Q3	TRANSISTOR		1								
65	586-151	MC830	A1-3, 6, 12, 22, 24, 27-29	INTEGRATED CIRCUIT		10								
66	586-152	MC836	A4, 7, 8, 17, 19, 23, 30, 34	INTEGRATED CIRCUIT		8								
67	586-153	MC846	A9-11, 14-16, 21, 31, 38	INTEGRATED CIRCUIT		9								
68	586-154	MC852	A26	INTEGRATED CIRCUIT		1								
69	586-155	MC862	A13, 25	INTEGRATED CIRCUIT		2								
70	586-261	LM302	A32, 35	INTEGRATED CIRCUIT		2								
71	586-309	UL9601	A33, 37	INTEGRATED CIRCUIT		2								
72	586-336	DM8800	A5, 36	INTEGRATED CIRCUIT		2								
73	586-416	MC839	A18, 20	INTEGRATED CIRCUIT		2								

X1364977D



AMPEX



Analog Slow Framing Printed Wiring Assembly  
(Module 133) Dwg. No. 1364977



CAPSTAN PHASE COMPARATOR PRINTED WIRING ASSEMBLY (MODULE 134)						CATALOG NO. X1364242		SHEET 1 OF 3						
								NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-06								
7	471-061	2N2432A	CR1-12,14-20	SCREW, Cross-Recessed, pan head, 4-40 x .312		1								
8	496-004			NUT, Assembled Washer, 4-40		1								
9	501-008			WASHER, Plain, No. 4		1								
12	013-689			DIODE		19								
15	013-257			VR3	DICDE, Zener, 6.2V		1							
16	013-224			VR2	DIODE, Zener, 6.8V		1							
17	014-248			Q6,10,16,23	TRANSISTOR		4							
18	014-505			Q2,7,25	TRANSISTOR		3							
21	014-600			Q20,22	TRANSISTOR		2							
22	014-628			Q5,11	TRANSISTOR, Dual		2							
23	580-325			Q24	TRANSISTOR		1							
25	030-094			C13,14,32,35	CAPACITOR, Monolythic, 1μF,25V, 20%		4							
26	030-966			C1,3,4,10,15,16,22,24	CAPACITOR, Ceramic, .01μF,100V,10%		8							
33	035-734			C19,26	CAPACITOR, Mylar, .01μF, 50V, 5%		2							
34	035-814			C25	CAPACITOR, Mylar, .033μF, 50V, 5%		1							
35	035-817			C21	CAPACITOR, Mylar, .015μF, 50V, 5%		1							
36	035-893			C7,12,20	CAPACITOR, Mylar, .1μF, 50V, 5%		3							
39	037-620			C8,33	CAPACITOR, Tantalum, 100μF, 20V,10%		2							
40	041-343			R91	RESISTOR, Comp., 680 ohm, 1/2W, 5%		1							
41	041-021			R25	RESISTOR, Comp., 51K ohm, 1/2W, 5%		1							
42	041-358			R45,92	RESISTOR, Comp., 62K ohm, 1/2W, 5%		2							
52	041-003			R38	RESISTOR, Comp., 100 ohm, 1/2W, 5%		1							
53	041-008			R6,85	RESISTOR, Comp., 1.5K ohm, 1/2W, 5%		2							
55	041-278			R68	RESISTOR, Comp., 2.7K ohm, 1/2W, 5%		1							
56	041-002			R7	RESISTOR, Comp., 10 ohm, 1/2W, 5%		1							
57	041-357			R59,84	RESISTOR, Comp., 5.6K ohm, 1/2W, 5%		2							
59	041-017			R4,5,21,26,28,44,87	RESISTOR, Comp., 33K ohm, 1/2W, 5%		7							
60	041-454			R53	RESISTOR, Comp., 39 ohm, 1/2W, 5%		1							
61	041-004			R88	RESISTOR, Comp., 220 ohm, 1/2W, 5%		1							
63	062-296			R36	RFSISTOR, Metal Film, 23.7K ohm, 1/4W, 1%		1							
64	057-173			R93,94	RESISTOR, Metal Film, 5.62K ohm, 1/4W, 1%		2							
65	055-133			C2	CAPACITOR, Mylar, .0022μF, 50V, 5%		1							
66	037-186			C9,34,38,39	CAPACITOR, Tantalum, 120μF, 10V,10%		4							
67	055-167			C18	CAPACITOR, Mylar, .0033μF, 50V, 5%		1							

X1364242I.

CAPSTAN PHASE COMPARATOR PRINTED WIRING ASSEMBLY (MODULE 134)					CATALOG NO. X1364242	SHEET 2 OF 3 NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-06						
68	055-638		C5	CAPACITOR, Polycarbonate, .01 $\mu$ F, 100V, 1%		1						
69	055-810		C17	CAPACITOR, Polycarbonate, .1 $\mu$ F, 100V, 1%		1						
70	057-805		R82	RESISTOR, Metal Film, 80.6K ohm, 1/4W, 1%		1						
71	062-298		R86	RESISTOR, Metal Film, 17.8K ohm, 1/4W, 1%		1						
72	057-453		R23	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		1						
73	048-674		R8	RESISTOR, Metal Film, 2.15K ohm, 1/4W, 1%		1						
74	057-983		R18	RESISTOR, Metal Film, 13.7K ohm, 1/4W, 1%		1						
75	057-917		R17,37	RESISTOR, Metal Film, 5.76K ohm, 1/4W, 1%		2						
76	143-981		J1-5	JACK, Closed Entry		10						
77	148-028		TP1-4,6	TIP JACK, White		5						
78	148-052		TP5	TIP JACK, Black		1						
79	041-420		R78	RESISTOR, Comp., 12K ohm, 1/2W, 5%		1						
80	280-130		Q1,2,6-10, 12-17,19-26	MOUNTING PAD, Transistor		21						
82	280-173		A1-3,5,6,13,14, 17,19,23,25	INTEGRATED CIRCUIT SPACER, 8 Pin		11						
84	280-174		A4,7,10,18,20, 21,24,26,27	INTEGRATED CIRCUIT SPACER, 10 Pin		9						
87	540-087		L1	INDUCTOR, 4H		1						
89	586-274	MC844P	A8,11	INTEGRATED CIRCUIT		2						
90	586-152	MC836P	A9,12	INTEGRATED CIRCUIT		2						
91	586-153	MC846P	A16,22	INTEGRATED CIRCUIT		2						
92	014-712		Q5,11	MOUNTING PAD, Transistor, dual		2						
93	586-261	LM302H	A2,3,6,14	INTEGRATED CIRCUIT		4						
94	586-269	$\mu$ A741C	A1,5,13,17, 19,23,25	INTEGRATED CIRCUIT		7						
95	586-309	$\mu$ L9601	A15	INTEGRATED CIRCUIT		1						
96	586-321	$\mu$ A723C	A4	INTEGRATED CIRCUIT		1						
98	586-336	DM8800	A7,10,18,20,21, 24,26,27	INTEGRATED CIRCUIT		8						
100	602-012		J1-5	PLUG, Shortening, red		5						
101	173-620		E1-14	TERMINAL, Stud, turret		14						
103	041-013		R16,19,20,29,30, 32,39,40,62,74, 89,96,98	RESISTOR, Comp., 4.7K ohm, 1/2W, 5%		13						

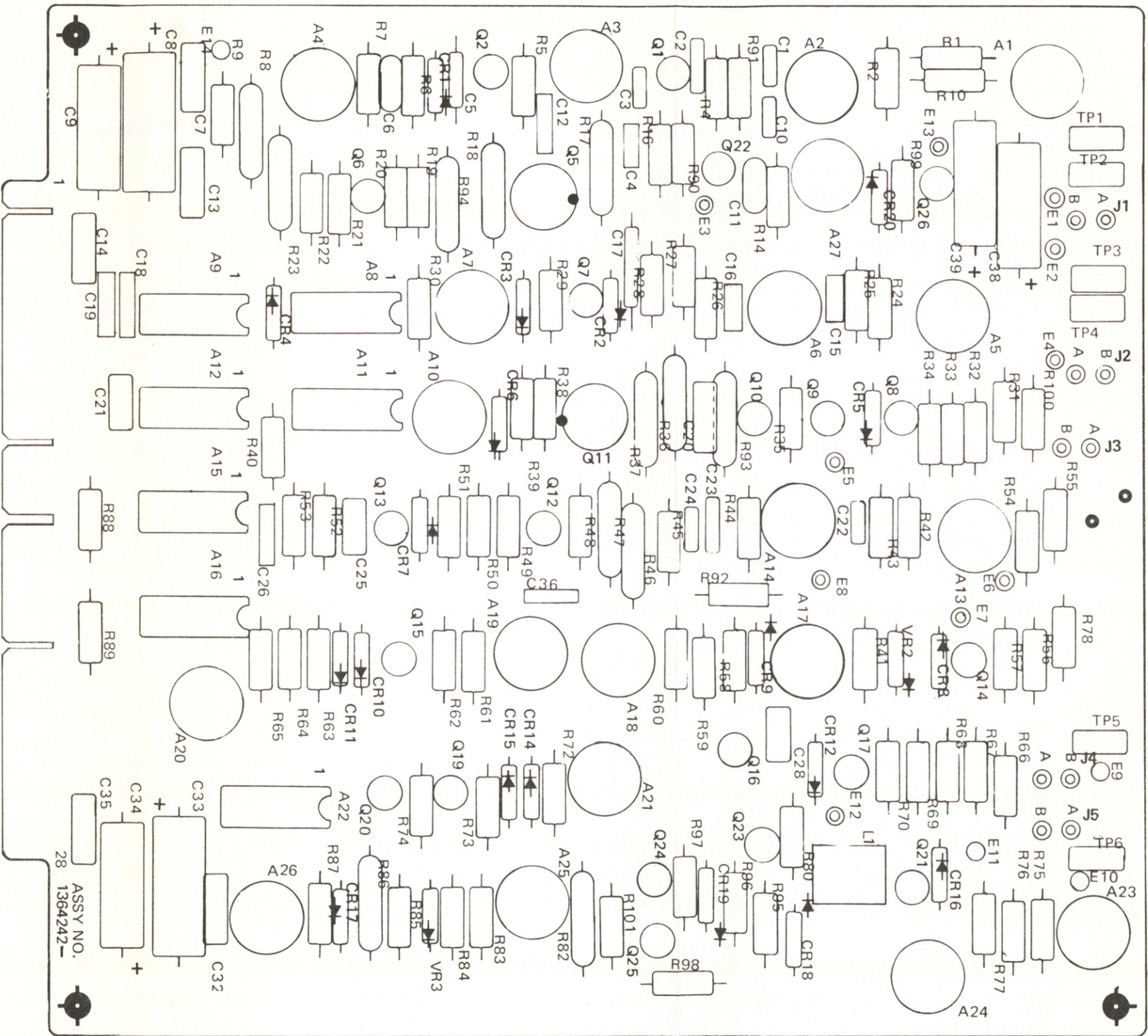
X1364242L

CAPSTAN PHASE COMPARATOR PRINTED WIRING ASSEMBLY (MODULE 134)						CATALOG NO. X1364242		SHEET 3 OF 3				
								NHA 1366025				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-06						
104	041-014		R2,22,24,35,42,43,52,58,60,75,83,90,95,97,100	RESISTOR, Comp., 10K ohm, 1/2W, 5%		15						
106	041-239		R9,41,50,65	RESISTOR, Comp., 2.2K ohm, 1/2W, 5%		4						
107	041-245		R33,49,56,64,69,72,76	RESISTOR, Comp., 1K ohm, 1/2W, 5%		7						
108	041-023		R14,27,34,48,51,57,63,70,73,77,99	RESISTOR, Comp., 100K ohm, 1/2W, 5%		11						
109	580-133		Q1,8,9,12-15,17,19,21,26	TRANSISTOR		11						
111	041-303		R101	RESISTOR, Comp., 3.9K ohm, 1/2W, 5%		1						
112	048-259		R47	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		1						
113	042-476		R46	RESISTOR, Metal Film, 2.21K ohm, 1/4W, 1%		1						
115	041-254		R54,55,67	RESISTOR, Comp., 15K ohm, 1/2W, 5%		3						
116	041-529		R31	RESISTOR, Comp., 20K ohm, 1/2W, 5%		1						
117	041-022		R10,61	RESISTOR, Comp., 68K ohm, 1/2W, 5%		2						
118	041-020		R1	RESISTOR, Comp., 47K ohm, 1/2W, 5%		1						
119	041-016		R66,80	RESISTOR, Comp., 22K ohm, 1/2W, 5%		2						
121	055-214		C28	CAPACITOR, Mylar, .0012μF, 50V, 5%		1						
122	035-730		C23	CAPACITOR, Mylar, .0047μF, 50V, 5%		1						

X1364242L



AMPEX



Capstan Phase Comparator Printed Wiring Assembly  
(Module 134)  
Drawing No. 1364242L

FREQUENCY DISCRIMINATOR & TAPE SPEED OVERRIDE PRINTED WIRING ASSEMBLY (MODULE 135)						CATALOG NO. X1364248		SHEET 1 OF 3					
								NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-06							
3	1364250	2N4093		SCHEMATIC		REF							
12	013-257		VR1-3	DIODE, Zener, 6.2V		3							
13	013-689		CR1-16	DIODE		16							
14	013-983		VR4	DIODE, Zener, 5.6V		1							
17	014-248		Q2, 4, 6	TRANSISTOR		3							
18	014-505		Q1, 7-9, 11, 13	TRANSISTOR		6							
19	014-631		Q3	TRANSISTOR		1							
20	580-133		Q5, 10, 12	TRANSISTOR		3							
23	030-094		C49-52	CAPACITOR, Monolythic, 1μF, 25V		4							
24	030-966		C1-3, 9, 10, 13, 17, 20-25, 29, 33, 35-37, 40, 44, 46-48	CAPACITOR, Ceramic, .01μF, 100V		23							
26	034-177		C5	CAPACITOR, Mica, 100PF, 500V		1							
27	034-943		C12	CAPACITOR, Mica, 27PF, 500V		1							
28	034-963		C31, 42	CAPACITOR, Mica, 15PF, 500V		2							
29	035-729		C26	CAPACITOR, Mylar, .0015μF, 50V, 5%		1							
30	035-730		C14	CAPACITOR, Mylar, .0047μF, 50V, 5%		1							
31	035-734		C11, 15, 34, 45	CAPACITOR, Mylar, .01μF, 50V, 5%		4							
33	035-828		C16, 18	CAPACITOR, Mylar, .022μF, 50V, 5%		2							
34	037-985		C7, 8	CAPACITOR, Tantalum, 15μF, 20V		2							
35	037-186		C53, 56	CAPACITOR, Tantalum, 120μF, 10V		2							
36	037-620		C54, 55	CAPACITOR, Tantalum, 100μF, 20V		2							
37	055-133		C4	CAPACITOR, Mylar, .0022μF, 50V, 5%		1							
41	055-810		C19, 32, 43	CAPACITOR, Polycarbonate, .1μF, 100V, 1%		3							
42	055-166		C28, 39	CAPACITOR, Mylar, .001μF, 50V, 5%		2							
44	041-430		R9	RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		1							
45	041-394		R14, 30, 85, 93	RESISTOR, Comp., 100K ohm, 1/4W, 5%		4							
47	041-407		R2	RESISTOR, Comp., 3.3K ohm, 1/4W, 5%		1							
48	041-408		R4, 12, 16, 28, 32, 36, 40	RESISTOR, Comp., 10K ohm, 1/4W, 5%		7							
50	041-411		R56, 57	RESISTOR, Comp., 47K ohm, 1/4W, 5%		2							
51	041-412		R38, 39, 83, 84, 91, 92	RESISTOR, Comp., 4.7K ohm, 1/4W, 5%		6							
52	041-414		R3, 10, 31, 35, 55, 80, 88	RESISTOR, Comp., 2.2K ohm, 1/4W, 5%		7							
53	041-419		R41	RESISTOR, Comp., 100 ohm, 1/4W, 5%		1							
56	041-434		R52, 53	RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		2							

X1364248L

FREQUENCY DISCRIMINATOR & TAPE SPEED OVERRIDE PRINTED WIRING ASSEMBLY (MODULE 135)						CATALOG NO. X1364248		SHEET 2 OF 3					
								NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-06							
57	041-442		R62,63,72,73	RESISTOR, Comp., 2.7K ohm, 1/4W, 5%		4							
58	041-496		R8	RESISTOR, Comp., 10 ohm, 1/4W, 5%		1							
59	041-507		R44,49	RESISTOR, Comp., 5.6K ohm, 1/4W, 5%		2							
60	041-518		R23,24,29,43,86,87,94,95	RESISTOR, Comp., 33K ohm, 1/4W, 5%		8							
61	041-653		R5,33,37,82,90	RESISTOR, Comp., 39 ohm, 1/4W, 5%		5							
62	041-429		R47,51,59,61	RESISTOR, Comp., 680 ohm, 1/4W, 5%		4							
64	044-805		R1,11	RESISTOR, Variable, 2K ohm		2							
65	042-469		R13	RESISTOR, Metal Film, 33.2K ohm, 1/4W, 1%		1							
66	042-475		R69,71	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1%		2							
67	048-674		R7	RESISTOR, Metal Film, 2.15K ohm, 1/4W, 1%		1							
68	048-954		R26	RESISTOR, Metal Film, 511 ohm, 1/4W, 1%		1							
70	057-384		R21	RESISTOR, Metal Film, 2.67K ohm, 1/4W, 1%		1							
72	057-453		R6	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		1							
73	057-675		R27	RESISTOR, Metal Film, 301 ohm, 1/4W, 1%		1							
74	057-758		R18	RESISTOR, Metal Film, 8.45K ohm, 1/4W, 1%		1							
75	057-806		R17	RESISTOR, Metal Film, 178K ohm, 1/4W, 1%		1							
77	057-830		R20	RESISTOR, Metal Film, 3.24K ohm, 1/4W, 1%		1							
78	062-260		R19,25	RESISTOR, Metal Film, 5.11K ohm, 1/4W, 1%		2							
80	062-262		R22	RESISTOR, Metal Film, 6.81K ohm, 1/4W, 1%		1							
81	148-028		TP1,3	CONNECTOR, Printed Circuit, tip jack, white		2							
82	148-052		TP2	CONNECTOR, Printed Circuit, tip jack, black		1							
83	041-396		R46,58	RESISTOR, Comp., 220 ohm, 1/4W, 5%		2							
85	586-274	MC844P	A11,24	INTEGRATED CIRCUIT		2							
86	586-121	F711	A13,15	INTEGRATED CIRCUIT		2							
87	586-152	MC836P	A9,17,22	INTEGRATED CIRCUIT		3							
88	586-153	MC846P	A5,14	INTEGRATED CIRCUIT		2							
89	586-261	LM302	A7,12,20,21,25,26	INTEGRATED CIRCUIT		6							
90	586-269	F741C	A1,6,16	INTEGRATED CIRCUIT		3							

X1364248L

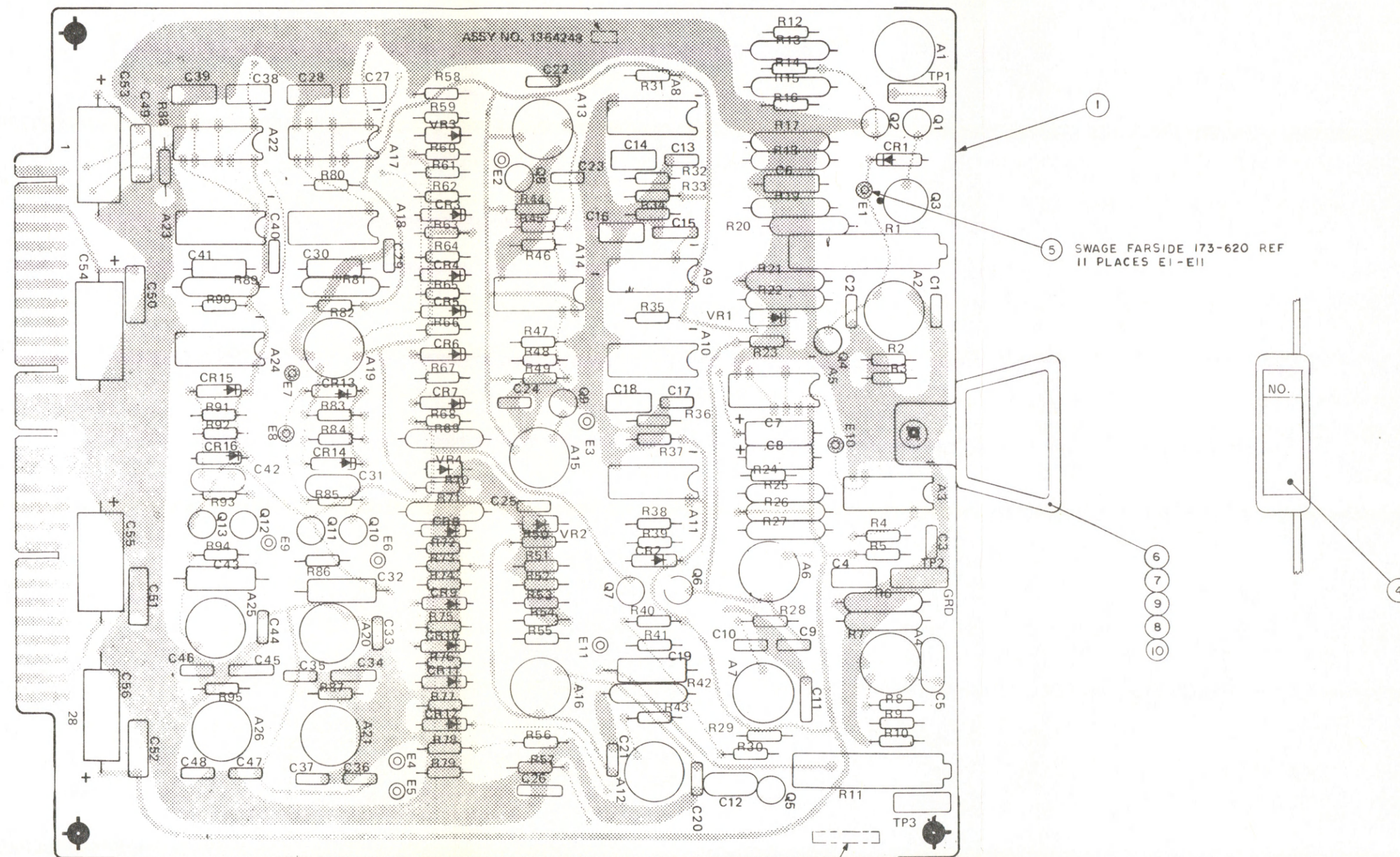


FREQUENCY DISCRIMINATOR & TAPE SPEED OVERRIDE PRINTED WIRING ASSEMBLY (MODULE 135)					CATALOG NO. X1364248	SHEET 3 OF 3							
					NHA 1366025								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-06							
91	586-309	F9601	A3, 8, 10, 18, 23	INTEGRATED CIRCUIT		5							
92	586-321	F723	A4	INTEGRATED CIRCUIT		1							
93	586-335	LM306	A2	INTEGRATED CIRCUIT		1							
94	586-336	DM8800	A19	INTEGRATED CIRCUIT		1							
97	280-173		A1, 2, 6, 7, 12, 16, 20, 21, 25, 26	SPACER, Integrated Circuit, 8 pin		10							
98	280-174		A4, 13, 15, 19	SPACER, Integrated Circuit, 10 pin		4							
99	280-130		Q1, 2, 4-13	SPACER, Transistor		12							
100	014-712		Q3	SPACER, Transistor, dual		1							
102	055-167		C27, 38	CAPACITOR, Mylar, .0033μF, 5%		2							
103	055-809		C6	CAPACITOR, Polycarbonate, .047μF, 100V, 1%		1							
104	055-638		C30, 41	CAPACITOR, Polycarbonate, .01μF, 100V, 1%		2							
106	041-406		R34, 45, 48, 50, 60	RESISTOR, Comp., 22K ohm, 1/4W, 5%		5							
107	041-410		R54, 64-68, 70, 74-77	RESISTOR, Comp., 1K ohm, 1/4W, 5%		11							
108	041-409		R78, 79	RESISTOR, Comp., 15K ohm, 1/4W, 5%		2							
109	062-646		R15, 81, 89	RESISTOR, Metal Film, 13K ohm, 1/4W, 1%		3							
110	057-042		R42	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		1							

X1364248L



AMPEX



Frequency Discriminator and Tape Speed Override  
 Printed Wiring Assembly (Module 135)  
 Drawing No. 1364248L



CAPSTAN TACH PROCESSOR PRINTED WIRING ASSEMBLY (MODULE 136)					CATALOG NO. 1364251	SHEET 1 OF 2					
					NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364253			SCHEMATIC		REF					
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		1					
9	501-008			WASHER, Plain, #4		1					
12	013-257		VR1-6	DIODE, Zener, 6.2V		6					
13	013-689		CR1-14	DIODE		14					
15	014-248		Q1-3	TRANSISTOR		3					
16	014-505		Q5	TRANSISTOR		1					
17	014-597		Q10	TRANSISTOR, Dual		1					
18	014-600		Q9	TRANSISTOR		1					
19	014-631		Q4	TRANSISTOR, Dual		1					
20	035-893		C38	CAPACITOR, Mylar, .1μF, 50V, 5%		1					
21	035-828		C26	CAPACITOR, Mylar, .022μF, 50V, 5%		1					
22	030-094		C6,8,25,34,36	CAPACITOR, Monolithic, 1μF, 25V, 20%		5					
23	030-966		C3,4,31,13,14,18,19,24,30,33	CAPACITOR, Ceramic, .01μF, 100V, 10%		10					
24	055-166		C32,33	CAPACITOR, Mylar, .001μF, 50V, 5%		2					
25	055-809		C21,22	CAPACITOR, Polycarbonate, .047μF, 100V, 1%		2					
27	034-162		C2,12,17	CAPACITOR, Mica, 50PF, 500V, 5%		3					
28	037-186		C7,37	CAPACITOR, Tantalum, 120μF, 10V, 10%		2					
29	037-620		C9,35	CAPACITOR, Tantalum, 100μF, 20V, 10%		2					
30	037-745		C29,28	CAPACITOR, Tantalum, 47μF, 6V, 10%		2					
32	041-008		R43,61,74	RESISTOR, Fixed, 1.5K ohm, 1/2W, 5%		3					
33	041-013		R22,35,50	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		3					
34	041-014		R2,3,6,12,13,16,21,24,25,28,33,40,62,65,67,68,71,75-77	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		20					
36	041-020		R1,11,23,63	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		4					
37	041-309		R46	RESISTOR, Fixed, 8.2K ohm, 1/2W, 5%		1					
37	041-022		R69	RESISTOR, Fixed, 68K ohm, 1/2W, 5%		1					
38	041-023		R51,56,66	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		3					
39	041-245		R4,5,8,9,14,15,18,19,26,27,30,31,37,73	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		14					
40	041-239		R34,36,38,70	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		4					
41	041-254		R54	RESISTOR, Fixed, 15K ohm, 1/2W, 5%		1					
42	041-278		R52,53,55	RESISTOR, Fixed, 2.7K ohm, 1/2W, 5%		3					
43	041-282		R41	RESISTOR, Fixed, 150 ohm, 1/2W, 5%		1					
44	041-329		R42	RESISTOR, Fixed, 330 ohm, 1/2W, 5%		1					
45	041-331		R58,59	RESISTOR, Fixed, 3.3K ohm, 1/2W, 5%		2					
46	041-357		R57	RESISTOR, Fixed, 5.6K ohm, 1/2W, 5%		1					
47	041-454		R45,72	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		2					
48	041-016		R87	RESISTOR, Fixed, 22K ohm, 1/2W, 5%		1					
50	041-317		R7,17,29	RESISTOR, Fixed, 820 ohm, 1/2W, 5%		3					
51	041-003		R10,20,32,78-86	RESISTOR, Fixed, 100 ohm, 1/2W, 5%		12					
52	055-133		C1,5,10,15,16,20	CAPACITOR, Mylar, .0022μF, 50V, 5%		6					

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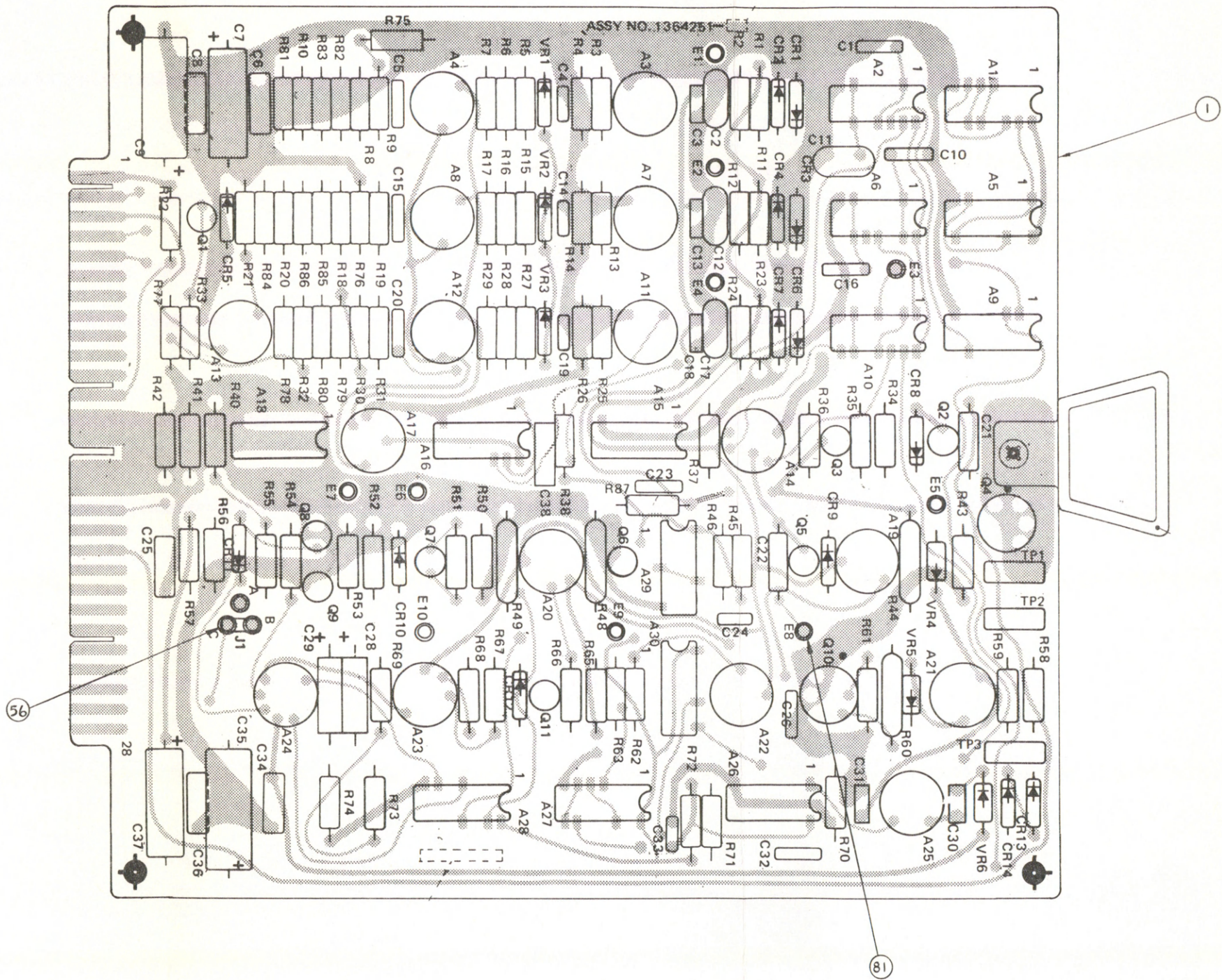


CAPSTAN TACH PROCESSOR PRINTED WIRING ASSEMBLY (MODULE 136)					CATALOG NO. 1364251		SHEET 2 OF 2					
							NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
53	056-292		C11	CAPACITOR, Mica, 500PF, 500V, 5%		1						
54	057-042		R48, 49	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		2						
55	057-424		R44, 60	RESISTOR, Metal Film, 1.82K ohm, 1/4W, 1%		2						
56	143-981		J1-A, B, C	JACK, Closed Entry		3						
57	148-028		TP2, 3	TIP JACK, White		2						
58	148-052		TP1	TIP JACK, Black		1						
60	280-130		Q1-3, 5-7, 8, 9, 11	MOUNTING PAD, Transistor		9						
61	280-174		A14, 17, 24	MOUNTING PAD, Integrated Circuit		3						
62	280-173		A3, 4, 7, 8, 11, 12, 13, 19-23, 25	MOUNTING PAD, Integrated Circuit		13						
63	580-133	2N4093	Q7, 8, 11	TRANSISTOR		3						
64	580-237	2N5066	Q6	TRANSISTOR		1						
66	586-152	MC836P	A2, 6	INTEGRATED CIRCUIT		2						
67	586-153	MC846P	A10, 27, 30	INTEGRATED CIRCUIT		3						
68	586-155	MC862P	A1, 5	INTEGRATED CIRCUIT		2						
69	586-269	μA741C	A13, 19-23	INTEGRATED CIRCUIT		6						
70	586-282	MC1439G	A4, 8, 12	INTEGRATED CIRCUIT		3						
71	586-309	μL9601	A15, 26	INTEGRATED CIRCUIT		2						
72	586-335	LM306H	A3, 7, 11, 25	INTEGRATED CIRCUIT		4						
73	586-336	DM8800	A14, 17, 24	INTEGRATED CIRCUIT		3						
74	586-415	MC857P	A9, 28	INTEGRATED CIRCUIT		2						
75	586-441	DM8830	A18	INTEGRATED CIRCUIT		1						
76	586-425	MC853P	A16, 29	INTEGRATED CIRCUIT		2						
78	014-712		Q4, 10	MOUNTING PAD, Transistor, dual		2						
80	602-012		J1	PLUG, Shorting, red		1						
81	173-620		E1-10	TERMINAL STUD, Turret		10						

X1364251F



AMPEX



Capstan Tach Processor Printed Wiring Assembly  
(Module 136) Dwg. No. 1364251



CAPSTAN REFERENCE TIMING GENERATOR PRINTED WIRING ASSEMBLY (MODULE 137)						CATALOG NO. 1364245		SHEET 1 OF 2			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364247			SCHEMATIC		REF					
4	1368188-30			LABEL MODULE							
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		1					
9	501-008			WASHER, Plain, #4		1					
12	013-257		VR2	DIODE, Silicon, zener, 6.2V, 5%		1					
13	013-689		CR1-4	DIODE, Silicon,		4					
14	013-983		VR1	DIODE, Silicon, zener, 5.6V, 5%		1					
17	014-248		Q2, 4, 7	TRANSISTOR, Silicon,		3					
18	014-505		Q3	TRANSISTOR, Silicon,		1					
19	014-597		Q5	TRANSISTOR, Dual, silicon,		1					
20	014-631		Q6	TRANSISTOR, Dual, silicon,		1					
23	030-966		C7-15, 25, 29, 33	CAPACITOR, Ceramic, .01μF, 100V, 10%		12					
26	034-943		C3	CAPACITOR, Mica, 27PF, 500V		1					
29	035-853		C18, 19	CAPACITOR, Mylar, .056μF, 50V, 5%		2					
30	035-598		C17	CAPACITOR, Mylar, .047μF, 50V, 5%		1					
31	035-729		C6	CAPACITOR, Mylar, .0015μF, 50V		1					
32	035-734		C2, 16	CAPACITOR, Mylar, .01μF, 50V, 5%		2					
33	055-809		C5	CAPACITOR, Polycarbonate, .047μF, 100V, 1%		1					
34	035-893		C1	CAPACITOR, Mylar, .1μF, 50V, 5%		1					
38	037-728		C20	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		1					
39	030-094		C38-41	CAPACITOR, Ceramic, 1.0μF, 25V		4					
40	037-186		C36, 37	CAPACITOR, Tantalum, 120μF, 10V		2					
41	037-620		C34, 35	CAPACITOR, Tantalum, 100μF, 20V		2					
44	041-004		R1	RESISTOR, Fixed, 220 ohm, 1/2W, 5%		1					
45	041-013		R11, 35	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		2					
46	041-014		R23, 31	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		2					
47	041-015		R5	RESISTOR, Fixed, 27K ohm, 1/2W, 5%		1					
48	041-016		R12, 24-26, 33	RESISTOR, Fixed, 22K ohm, 1/2W, 5%		5					
49	041-017		R7, 8	RESISTOR, Fixed, 33K ohm, 1/2W, 5%		2					
50	041-020		R4, 28	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		2					
51	041-023		R6, 14	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		2					
52	041-239		R2, 21, 34	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		3					
53	041-245		R27, 29	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		2					
54	041-254		R3, 13	RESISTOR, Fixed, 15K ohm, 1/2W, 5%		2					
55	041-278		R9	RESISTOR, Fixed, 2.7K ohm, 1/2W, 5%		1					
56	041-331		R15	RESISTOR, Fixed, 3.3K ohm, 1/2W, 5%		1					
57	041-454		R22	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		1					
58	041-534		R30	RESISTOR, Fixed, 62 ohm, 1/2W, 5%		1					
61	048-132		R20	RESISTOR, Metal Film, 8.25K ohm, 1/2W, 1%		1					
62	048-895		R16	RESISTOR, Metal Film, 3.57K ohm, 1/2W, 1%		1					
63	048-823		R18	RESISTOR, Metal Film, 2K ohm, 1/2W, 1%		1					
64	048-947		R17	RESISTOR, Metal Film, 1.78K ohm, 1/2W, 1%		1					

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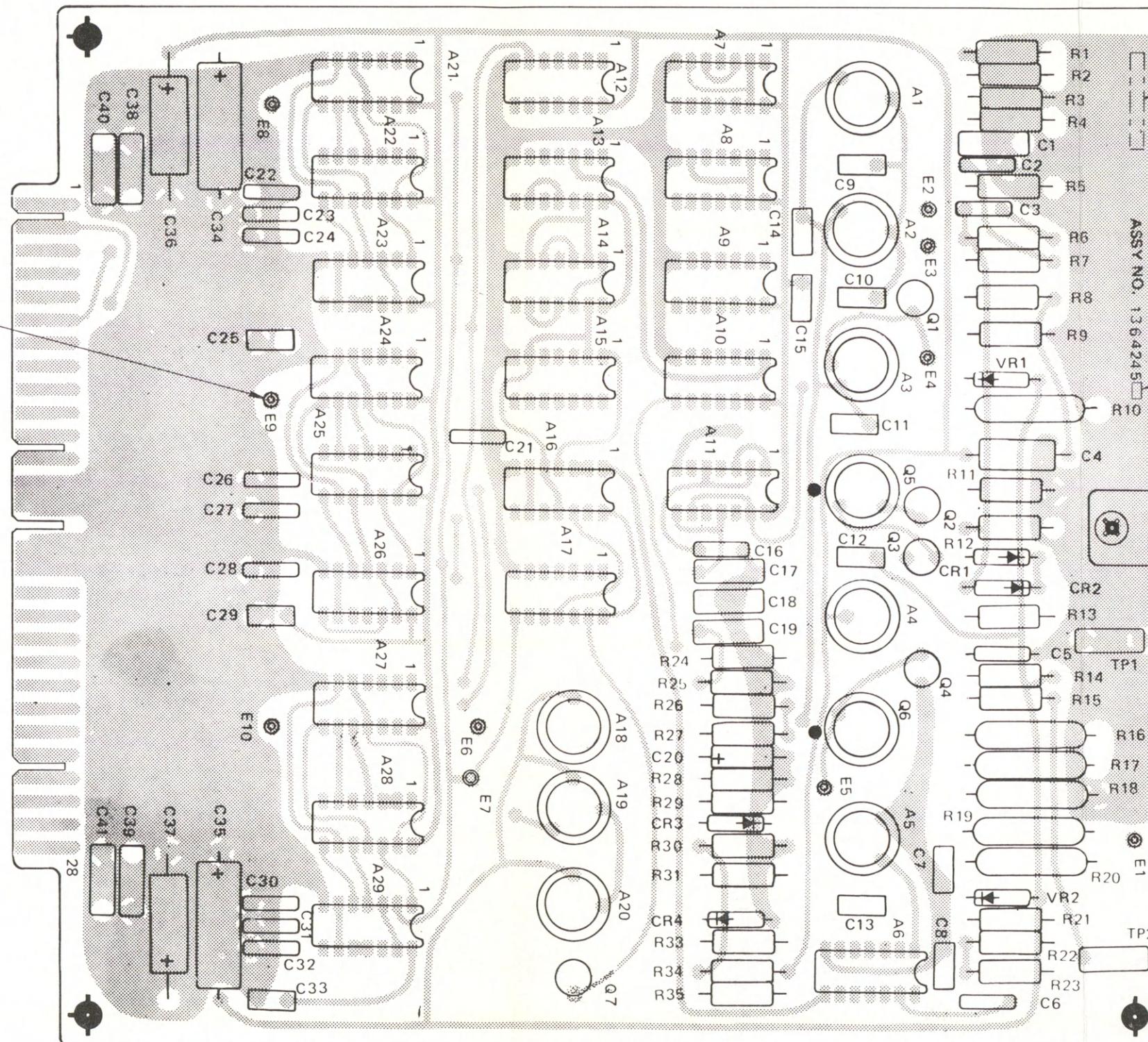
CAPSTAN REFERENCE TIMING GENERATOR PRINTED WIRING ASSEMBLY (MODULE 137)						CATALOG NO. 1364245		SHEET 2 OF 2					
								NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
67	055-133	TO-18	C21,22,26	CAPACITOR, Mylar, .0022μF, 50V, 5%		3							
68	055-166		C30	CAPACITOR, Mylar, .001μF, 50V, 5%		1							
69	055-167		C23,24,27,28,31,32	CAPACITOR, Mylar, .0033μF, 50V, 5%		6							
70	055-810		C4	CAPACITOR, Polycarbon, .1μF, 100V, 1%		1							
73	057-246		R19	RESISTOR, Metal Film, 3.92K ohm, 1/2W, 1%		1							
74	057-626		R10	RESISTOR, Metal Film, 22.6K ohm, 1/2W, 1%		1							
77	148-028		TP2	TEST POINT, White		1							
78	148-052		TP1	TEST POINT, Black		1							
80	173-620		E1-10	TERMINAL STUD, Turret		10							
83	280-130		Q1-3,4,7	MOUNTING PAD, Transistor		5							
84	280-173	A1-3,5,18-20	SPACER, Integrated Circuit, 8 pin		7								
85	280-174	A4	SPACER, Integrated Circuit, 10 pin		1								
88	580-133	2N4093	Q1	TRANSISTOR, Silicon		1							
91	586-097	MC832P	A10	INTEGRATED CIRCUIT		1							
92	586-425	MC853P	A7,8,13-15	INTEGRATED CIRCUIT		5							
93	586-152	MC836P	A11,12,16,22,25,28	INTEGRATED CIRCUIT		6							
94	586-153	MC846P	A17,21,23,24,26,27,29	INTEGRATED CIRCUIT		7							
95	014-712		Q5,6	MOUNTING PAD, Transistor, dual		2							
96	586-309	F9601	A6	INTEGRATED CIRCUIT		1							
97	586-261	LM302	A2,3	INTEGRATED CIRCUIT		2							
98	586-269	F741C	A1,18-20	INTEGRATED CIRCUIT		4							
99	586-335	LM306	A5	INTEGRATED CIRCUIT		1							
100	586-336	DM8800	A4	INTEGRATED CIRCUIT		1							
101	586-441	DM8830	A9	INTEGRATED CIRCUIT		1							

X1364245F



AMPEX

SWAGE FAR SIDE  
10 PLACES  
(REF 173-620)



COMPONENT SIDE

Capstan Reference Timing Generator  
Printed Wiring Assembly (Module 137)  
Dwg. No. 1364245



FRAME & VERTICAL PULSE SEPARATION PRINTED WIRING ASSEMBLY (MODULE 138)						CATALOG NO. 1364254		SHEET 1 OF 2			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364256			SCHEMATIC		REF					
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		1					
9	501-008			WASHER, Plain, #4		1					
12	013-257		VR1-6	DIODE, Zener		6					
13	013-689		CR1-4	DIODE		4					
16	014-505		Q2	TRANSISTOR		1					
17	014-631		Q1,3	TRANSISTOR, Dual		2					
18	014-712		Q1,3	SPACER, Transistor		2					
21	030-094		C4,5,34,42-44	CAPACITOR, Monolithic, 1μF, 25V, 20%		6					
22	030-223		C25	CAPACITOR, Monolithic, 2.2μF, 25V, 20%		1					
23	030-966		C3,7,8,11-13, 15-17,21,22, 26-29,31-33, 39-41	CAPACITOR, Ceramic, .01μF, 100V, 10%		21					
24	035-730		C1,37	CAPACITOR, Mylar, .0047, 50V, 5%		2					
25	035-734		C9,10,14,20	CAPACITOR, Mylar, .01μF, 50V, 5%		4					
26	035-893		C18,23	CAPACITOR, Mylar, .1μF, 50V, 5%		2					
27	037-186		C36	CAPACITOR, Tantalum, 120μF, 10V, 10%		1					
28	037-620		C6,35	CAPACITOR, Tantalum, 100μF, 20V, 10%		2					
29	055-144		C2,38	CAPACITOR, Mylar, .012μF, 50V, 5%		2					
30	055-156		C19,24	CAPACITOR, Mylar, .22μF, 50V, 5%		2					
31	055-720		C30	CAPACITOR, Mylar, .12μF, 50V, 5%		1					
34	041-009		R16,35	RESISTOR, Fixed, 1.8K ohm, 1/2W, 5%		2					
35	041-013		R1,2,44,45,57	RESISTOR, Fixed, 4.7K, 1/2W, 5%		5					
36	041-014		R3,5,6,20,25, 46,48,49,51,52	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		10					
37	041-015		R23,28,29	RESISTOR, Fixed, 27K ohm, 1/2W, 5%		3					
38	041-018		R43	RESISTOR, Fixed, 39K ohm, 1/2W, 5%		1					
39	041-020		R7,50,53	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		3					
40	041-027		R31	RESISTOR, Fixed, 220K ohm, 1/2W, 5%		1					
41	041-239		R4,21,22,26,27, 32,33,37,40	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		9					
42	041-278		R13,14	RESISTOR, Fixed, 2.7K ohm, 1/2W, 5%		2					
43	041-283		R41,47,56	RESISTOR, Fixed, 47 ohm, 1/2W, 5%		3					
44	041-330		R9,11,12,15, 34,38	RESISTOR, Fixed, 6.8K ohm, 1/2W, 5%		6					
45	041-357		R10	RESISTOR, Fixed, 5.6K ohm, 1/2W, 5%		1					
46	041-454		R17-19,24,36, 39,42	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		7					
47	048-712		R8,54,55	RESISTOR, Metal Film, 75 ohm, 1/4W, 1%		3					
48	041-026		R30	RESISTOR, Fixed, 180K ohm, 1/2W, 5%		1					
50	143-981		J1-A, B, C; J2-A, B, C; J3-A, B, C	CONNECTOR, Jack		9					
51	148-028		TP1,2	CONNECTOR, Printed Circuit, tip jack, white		2					
52	148-052		TP3	CONNECTOR, Printed Circuit, tip jack black		1					

X1364254C

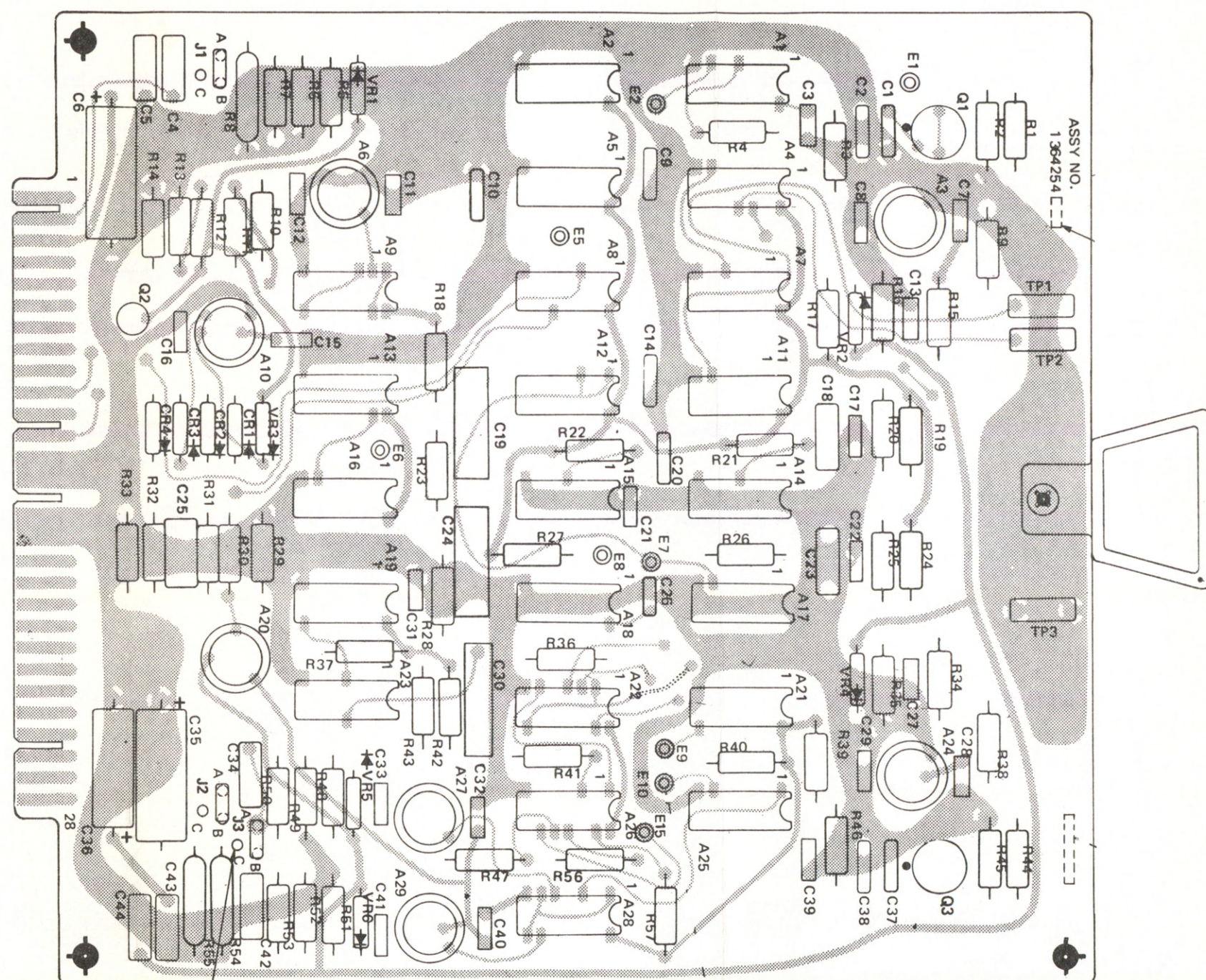


FRAME & VERTICAL PULSE SEPARATION PRINTED WIRING ASSEMBLY (MODULE 138)						CATALOG NO. 1364254		SHEET 2 OF 2					
								NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
55	173-620		E1,2,5-10,15	TERMINAL Stud, turret 8		9							
56	280-130		Q2	SPACER, Transistor, small		1							
57	280-173		A3,6,20,24,27,29	SPACER, Integrated Circuit, 8 pin		6							
58	280-174		A10	SPACER, Integrated Circuit, 10 pin		1							
60	586-274	MC844P	A2,21	INTEGRATED CIRCUIT		2							
61	586-121	F711C	A10	INTEGRATED CIRCUIT		1							
62	586-152	MC836P	A5,7,12	INTEGRATED CIRCUIT		3							
63	586-153	MC846P	A4,9,11,19,22,28	INTEGRATED CIRCUIT		6							
64	586-425	MC853P	A13	INTEGRATED CIRCUIT		1							
65	586-269	F741C	A20	INTEGRATED CIRCUIT		1							
66	586-309	F9601	A1,14,15,17,18,23,25	INTEGRATED CIRCUIT		7							
67	586-335	LM306	A3,6,24,27,29	INTEGRATED CIRCUIT		5							
68	586-415	MC857P	A8,26	INTEGRATED CIRCUIT		2							
69	586-416	MC839P	A16	INTEGRATED CIRCUIT		1							
72	602-013			PLUG, Shorting, blue		3							

X1364254C



AMPEX



Frame and Vertical Pulse Separation  
Printed Wiring Assembly (Module 138)  
Dwg. No. 1365254

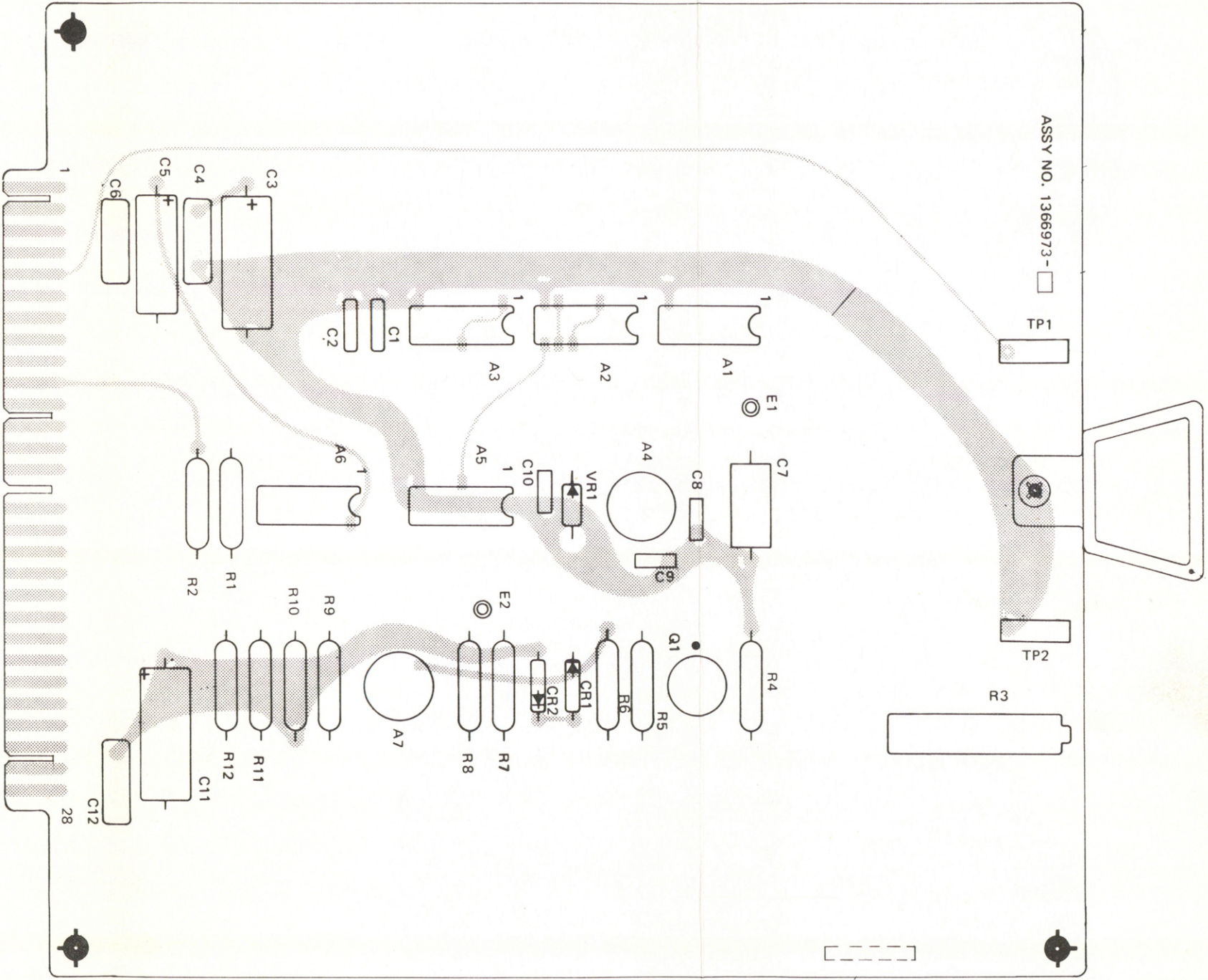


MANUAL TRACKING PRINTED WIRING ASSEMBLY (MODULE 139)					CATALOG NO. 1366973		SHEET 1 OF 1					
							NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
3	1366974			SCHEMATIC		REF						
4	1363791-01			HANDLE, Printed Wiring Board		1						
6	013-257		VR1	DIODE, Zener		1						
7	013-689		CR1,2	DIODE		2						
9	014-631		Q1	TRANSISTOR, Dual		1						
10	014-712		Q1	MOUNTING PAD, Transistor		1						
13	030-094		C4,6,12	CAPACITOR, Monolithic, .1μF, 25V		3						
14	030-966		C8-10	CAPACITOR, Ceramic, .01μF, 100V		3						
16	035-816		C1,2	CAPACITOR, Mylar, .018μF, 50V		2						
18	037-186		C5	CAPACITOR, Tantalum, 120μF, 10V		1						
19	037-620		C3,11	CAPACITOR, Tantalum, 100μF, 20V		2						
21	042-476		R11	RESISTOR, Metal Film, 2.21K ohm, 1/4W, 1%		1						
22	042-466			RESISTOR, Metal Film, 27.4K ohm, 1/4W, 1%		1						
24	044-767		R3	RESISTOR, Variable, 5K ohm, 1W, 10%		1						
25	048-620		R2,9	RESISTOR, Metal Film, 4.75K ohm, 1/4W, 1%		2						
26	048-257		R5	RESISTOR, Metal Film, 3.01K ohm, 1/4W, 1%		1						
27	048-259		R1,7	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		2						
28	048-672		R10	RESISTOR, Metal Film, 332 ohm, 1/4W, 1%		1						
29	048-770		R4	RESISTOR, Metal Film, 3.09K ohm, 1/4W, 1%		1						
31	055-810		C7	CAPACITOR, Polycarbonate, .1μF, 100V, 1%		1						
33	057-042		R8,12	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		2						
36	148-028		TP1	CONNECTOR, Tip Jack, white		1						
37	148-052		TP2	CONNECTOR, Tip Jack, black		1						
38	173-620		E1,2	TERMINAL, Stud, turret		2						
39	280-173		A4,7	MOUNTING PAD, Integrated Circuit		2						
41	586-152	MC836P	A3	INTEGRATED CIRCUIT		1						
42	586-153	MC846P	A2,5	INTEGRATED CIRCUIT		2						
43	586-269	F741C	A7	INTEGRATED CIRCUIT		1						
44	586-274	MC844P	A1	INTEGRATED CIRCUIT		1						
45	586-335	LM306	A4	INTEGRATED CIRCUIT		1						
46	586-425	MC853P	A6	INTEGRATED CIRCUIT		1						
49	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1						
50	496-004			NUT, Assembled Washer, 4-40		1						
51	501-008			WASHER, Plain, #4		1						

X1366973-



AMPEX



Manual Tracking Printed Wiring Assembly (Module 139)  
Dwg. No. 1366973

AUTO TRACKING SERVO PRINTED WIRING ASSEMBLY (MODULE 129)					CATALOG NO. X1364317	SHEET 1 OF 3							
					NHA 1366025								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-04							
2	1364319			SCHEMATIC		REF							
6	013-257		VR1,2	DIODE, Zener, 6.2V, 5%		2							
9	013-689		CR1-10	DIODE, Silicone, switching		10							
10	014-248		Q1	TRANSISTOR		1							
11	014-600		Q5-7	TRANSISTOR		3							
14	014-631		Q2,3	TRANSISTOR, Dual		2							
16	014-712		Q2,3	SPACER, Dual Transistor		2							
19	030-094		C7,10,46,48	CAPACITOR, Monolithic, 1μF,25V, 20%		4							
22	030-966		C2-4,11-13,16,19,20,24,31,34,44,51	CAPACITOR, Ceramic, .01μF,100V,10%		14							
23	034-177		C25,26	CAPACITOR, Mica, 100PF, 500V, 5%		2							
25	035-814		C17	CAPACITOR, Mylar, .033μF, 50V, 5%		1							
26	035-816		C6,8,23,42	CAPACITOR, Mylar, .018μF, 50V, 5%		4							
27	035-893		C27,32,35,36	CAPACITOR, Mylar, .1μF, 50V, 5%		4							
28	037-136		C50	CAPACITOR, Mylar, 39μF, 10V, 10%		1							
29	037-620		C9,43	CAPACITOR, Tantalum, 100μF, 20V,10%		2							
30	037-742		C21,22	CAPACITOR, Tantalum, 33μF, 35V, 10%		2							
31	037-117		C14,15	CAPACITOR, Tantalum, 150μF, 30V, 20%		2							
34	037-740		C29,50	CAPACITOR, Tantalum, 33μF, 10V, 10%		2							
35	037-746		C28,33	CAPACITOR, Tantalum, 47μF, 20V, 10%		2							
37	041-023		R36,43,52,53,74,82	RESISTOR, Comp., 100K ohm, 1/2W, 5%		6							
40	041-018		R80	RESISTOR, Comp., 39K ohm, 1/2W, 5%		1							
43	041-026		R63	RESISTOR, Comp., 180K ohm, 1/2W, 5%		1							
45	041-239		R27,34,45,73	RESISTOR, Comp., 2.2K ohm, 1/2W, 5%		4							
46	041-245		R13,40,44,51,62,70	RESISTOR, Comp., 1K ohm, 1/2W, 5%		6							
47	041-309		R66	RESISTOR, Comp., 8.2K ohm, 1/2W, 5%		1							
50	041-303		R55	RESISTOR, Comp., 3.9K ohm, 1/2W, 5%		1							
51	041-331		R4,37	RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		2							
52	041-361		R18	RESISTOR, Comp., 7.5K ohm, 1/2W, 5%		1							
53	041-420		R39	RESISTOR, Comp., 12K ohm, 1/2W, 5%		1							
56	041-016		R22,33,38	RESISTOR, Comp., 22K ohm, 1/2W, 5%		3							
57	041-020		R78	RESISTOR, Comp., 47K ohm, 1/2W, 5%		1							
58	042-476		R6,16	RESISTOR, Metal Film, 2.21K ohm, 1/4W, 1%		2							
59	042-485		R2,3	RESISTOR, Metal Film, 3.32K ohm, 1/4W, 1%		2							

X1364317F

AUTO TRACKING SERVO PRINTED WIRING ASSEMBLY (MODULE 129)						CATALOG NO. X1364317		SHEET 2 OF 3			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-04					
60	042-466		R8	RESISTOR, Metal Film, 27.4K ohm, 1/4W, 1%		1					
61	041-022		R23	RESISTOR, Comp., 68K ohm, 1/2W, 5%		1					
62	044-767		R12	POTENTIOMETER, Cermet, 5K ohm, 1W, 10%		1					
63	044-873		R11	POTENTIOMETER, Cermet, 1K ohm, 1W, 10%		1					
64	041-318		R28	RESISTOR, Comp., 120K ohm, 1/2W, 5%		1					
65	048-257		R9	RESISTOR, Metal Film, 3.01K ohm, 1/4W, 1%		1					
66	048-259		R7	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		1					
67	048-672		R17	RESISTOR, Metal Film, 332 ohm, 1/4W, 1%		1					
68	048-770		R10	RESISTOR, Metal Film, 3.09K ohm, 1/4W, 1%		1					
69	048-820		R1	RESISTOR, Metal Film, 4.02K ohm, 1/4W, 1%		1					
70	041-454		R26, 32, 71, 81	RESISTOR, Comp., 39 ohm, 1/2W, 5%		4					
71	041-017		R5, 42, 56	RESISTOR, Comp., 33K ohm, 1/2W, 5%		3					
72	055-530		C18	CAPACITOR, Mylar, .47μF, 50V, 5%		1					
73	055-156		C40, 41	CAPACITOR, Mylar, .22μF, 50V, 5%		2					
74	055-484		C45	CAPACITOR, Mylar, .33μF, 50V, 10%		1					
76	055-807		C1, 37-39	CAPACITOR, Metalized Polycarb, 1μF, 100V, 1%		4					
77	055-810		C5	CAPACITOR, Metalized Polycarb, .1μF, 100V, 1%		1					
79	057-042		R14, 24	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		2					
80	041-329		R83	RESISTOR, Comp., 330 ohm, 1/2W, 5%		1					
81	057-209		R60, 61	RESISTOR, Metal Film, 22.6K ohm, 1/4W, 1%		2					
82	041-030		R19	RESISTOR, Comp., 1.5 megohm, 1/2W, 5%		1					
83	057-886		R57, 58	RESISTOR, Metal Film, 221K ohm, 1/4W, 1%		2					
84	057-917		R59	RESISTOR, Metal Film, 5.76K ohm, 1/4W, 1%		1					
85	041-330		R31, 46, 48	RESISTOR, Comp., 6.8K ohm, 1/2W, 5%		3					
87	173-620		E1-10	TERMINAL STUD, Turret, swage		10					
88	602-012		J1, 2	PLUG, Shorting		2					
90	143-981		J1A, B, C J2A, B	CONNECTOR, Printed Circuit, tip jack		5					
91	280-130		Q1, 5-12	SPACER, Transistor		9					

X1364317F

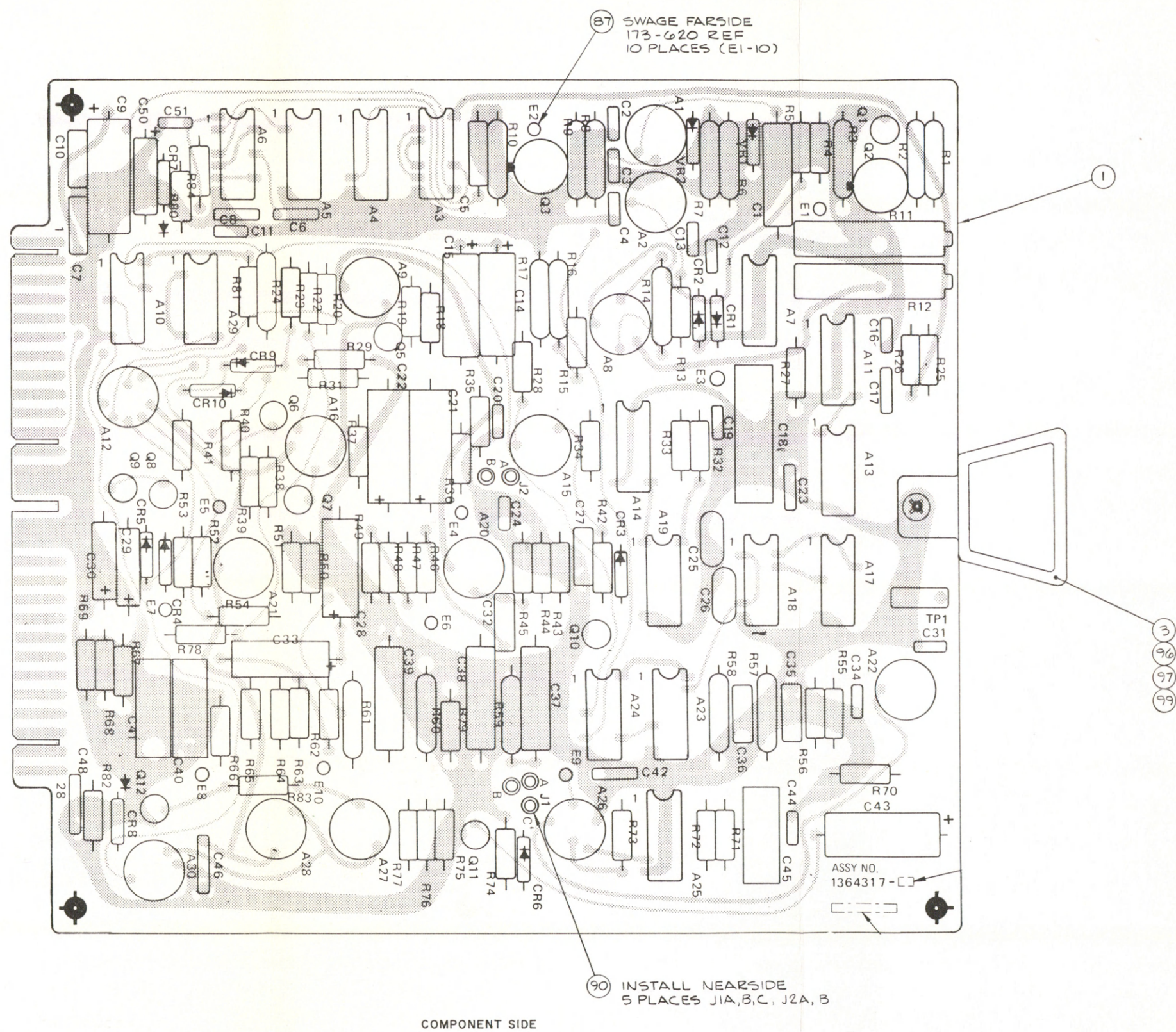


AUTO TRACKING SERVO PRINTED WIRING ASSEMBLY (MODULE 129)					CATALOG NO. X1364317	SHEET 3 OF 3					
					NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-04					
92	280-173		A1,2,8,9,15,16,20-22,27,28	SPACER, Integrated Circuit, 8 pin		11					
94	280-174		A12,26,30	SPACER, Integrated Circuit, 10 pin		3					
96	471-061			SCREW, Pan Head, 4-40 x .312		1					
97	496-004			NUT, Assembled Washer, 4-40		1					
99	501-008			WASHER, Flat, #4		1					
102	580-133	2N4093 F.E. T.	Q8-12	TRANSISTOR		5					
104	586-274	Fairchild 9944	A4	INTEGRATED CIRCUIT		1					
105	586-152	MC836P	A6,17	INTEGRATED CIRCUIT		2					
106	586-153	MC846P	A3,5,10,18,24	INTEGRATED CIRCUIT		5					
107	586-425	MC853	A7,23	INTEGRATED CIRCUIT		2					
108	586-261	LM302	A15,22	INTEGRATED CIRCUIT		2					
109	586-269	Fairchild μA741C	A8,9,16,20,21,27,28	INTEGRATED CIRCUIT		7					
111	586-335	LM306	A1,2	INTEGRATED CIRCUIT		2					
113	586-416	MC839P	A13,19	INTEGRATED CIRCUIT		2					
114	586-336	DM8800	A12,26,30	INTEGRATED CIRCUIT		3					
115	586-309	Fairchild μA9601	A11,14,25,29	INTEGRATED CIRCUIT		4					
117	148-052		TP1	TIP JACK, Black		1					
118	041-013		R15,35,41,50,54,69,76,84	RESISTOR, Comp., 4.7K ohm, 1/2W, 5%		8					
119	041-014		R20,25,29,47,49,64,65,67,68,72,75,77,79	RESISTOR, Comp., 10K ohm, 1/2W, 5%		13					

X1364317F



**AMPEX**



*Auto Tracking Servo Printed Wiring Assembly  
(Module 139)  
Drawing No. 1364317F*



SERVO LOGIC "C" PRINTED WIRING ASSEMBLY (MODULE 140)					CATALOG NO. 1364302		SHEET 1 OF 2					
							NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
3	1364304			SCHEMATIC		REF						
5	Pending			LABEL		1						
6	1363791-01			HANDLE, Printed Wiring Board		1						
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1						
8	496-004			NUT, Assembled Washer, 4-40		1						
9	501-008			WASHER, Plain, #4		1						
11	013-689		CR1-6	DIODE		6						
13	014-247		Q3	TRANSISTOR		1						
14	014-383		Q2	TRANSISTOR		1						
15	014-506		Q1	TRANSISTOR		1						
16	014-847		K1	SPACER, Relay		1						
18	020-511		K1	RELAY, Armature, SPDT		1						
20	030-094		C26, 27, 37, 38	CAPACITOR, Monolithic, 1μF, 25V, 20%		4						
21	030-966		C3, 8, 10, 12, 14, 16, 18, 20, 23, 25, 34, 36	CAPACITOR, Ceramic, .01μF, 100V, 10%		12						
23	035-730		C29, 30	CAPACITOR, Mylar, .0047μF, 50V, 5%		2						
24	035-734		C1, 9, 15, 28, 33, 35	CAPACITOR, Mylar, .01μF, 50V, 5%		6						
26	037-109		C11, 17	CAPACITOR, Tantalum, 10μF, 20V, 10%		2						
27	037-186		C22, 24, 31, 39	CAPACITOR, Tantalum, 120μF, 10V, 10%		4						
28	037-620		C32, 40	CAPACITOR, Tantalum, 100μF, 20V, 10%		2						
29	037-740		C19	CAPACITOR, Tantalum, 33μF, 10V, 10%		1						
30	041-014		R1, 8, 9, 19	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		4						
31	041-015		R30	RESISTOR, Fixed, 27K ohm, 1/2W, 5%		1						
32	041-023		R2	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		1						
33	041-245		R4-7, 32	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		5						
34	041-278		R3	RESISTOR, Fixed, 2.7K ohm, 1/2W, 5%		1						
35	041-454		R11, 15, 17, 22, 25, 28, 31, 34, 38, 40, 43, 45	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		12						
36	041-455		R13, 18, 20, 35, 41	RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		5						
38	042-483		R37	RESISTOR, Metal Film, 15K ohm, 1/4W, 1%		1						
39	048-656		R12, 24, 33	RESISTOR, Metal Film, 18, 2K ohm, 1/4W, 1%		3						
41	055-156		C2, 7, 13	CAPACITOR, Mylar, .22μF, 50V, 5%		3						
42	055-166		C21	CAPACITOR, Mylar, .001μF, 50V, 5%		1						
43	055-807		C4-6	CAPACITOR, Polycarbonate, 1μF, 100V, 1%		3						
45	057-673		R21	RESISTOR, Metal Film, 16.5K ohm, 1/4W, 1%		1						
46	057-798		R16, 42	RESISTOR, Metal Film, 9.53K ohm, 1/4W, 1%		2						
47	057-800		R36, 39	RESISTOR, Metal Film, 26.1K ohm, 1/4W, 1%		2						
48	057-915		R23	RESISTOR, Metal Film, 4.53K ohm, 1/4W, 1%		1						
49	057-942		R10	RESISTOR, Metal Film, 14.7K ohm, 1/4W, 1%		1						
50	062-299		R14, 26	RESISTOR, Metal Film, 26.7K ohm, 1/4W, 1%		2						

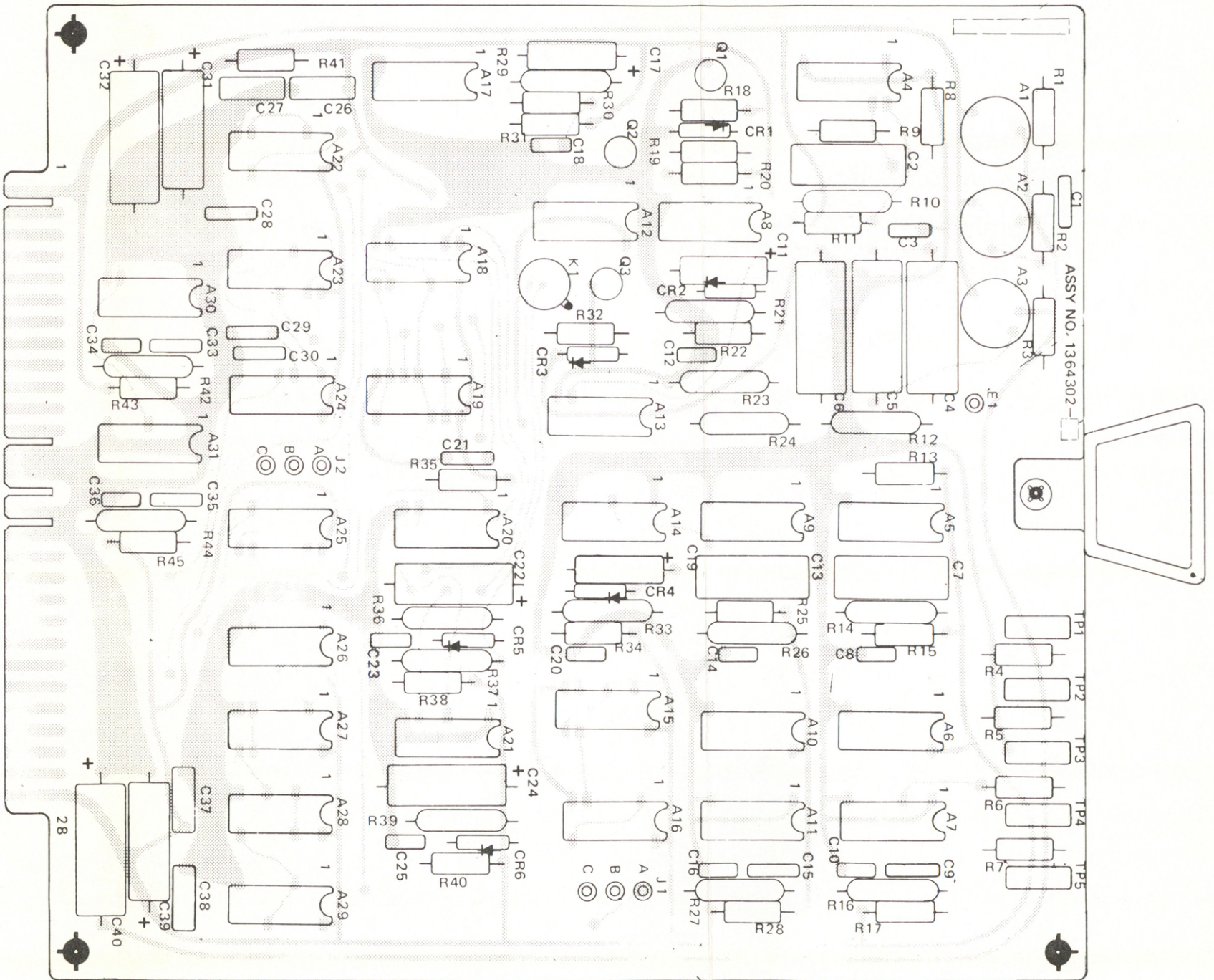
X1364302A



SERVO LOGIC "C" PRINTED WIRING ASSEMBLY (MODULE 140)					CATALOG NO. 1364302		SHEET 2 OF 2						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
51	062-455		R27, 44	RESISTOR, Metal Film, 19.1K ohm, 1/4W, 1%		2							
52	062-456		R29	RESISTOR, Metal Film, 576K ohm, 1/4W, 1%		1							
54	143-981		J1-A, B, C J2-A, B, C	CONNECTOR, Jack, printed circuit tip		6							
55	148-028		TP1, 2, 4, 5	CONNECTOR, Jack, printed circuit tip, white		4							
56	148-052		TP3	CONNECTOR, Jack, printed circuit tip, black		1							
57	173-620		E1	TERMINAL, Stud, turret, swage 8		1							
58	280-173		A1-3	SPACER		3							
60	586-151	MC830P	A13, 19	INTEGRATED CIRCUIT		2							
61	586-152	MC836P	A24	INTEGRATED CIRCUIT		1							
62	586-153	MC846P	A15, 16, 18, 22, 23, 25-29	INTEGRATED CIRCUIT		10							
63	586-155	MC862P	A10, 12	INTEGRATED CIRCUIT		2							
64	586-184	μL9094	A6	INTEGRATED CIRCUIT		1							
65	586-269	μA741C	A2, 3	INTEGRATED CIRCUIT		2							
66	586-309	μL9601	A4, 5, 7-9, 11, 14, 17, 20, 21, 30, 31	INTEGRATED CIRCUIT		12							
67	586-437	LM301A	A1	INTEGRATED CIRCUIT		1							
71	602-012		J1, 2	SHORTING PLUG, Red		2							

X1364302A

AMPEX



Servo Logic "C" Printed Wiring Assembly  
(Module 140) Dwg. No. 1364302

SERVO LOGIC 'A' PRINTED WIRING ASSEMBLY (MODULE 141)					CATALOG NO. X1364275	SHEET 1 OF 3							
						NHA 1366025							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-07							
3	1364277			SCHEMATIC		REF							
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1							
8	496-004			NUT, Assembled Washer, 4-40		1							
9	501-008			WASHER, Plain, No. 4		1							
10	013-689		CR7-9,11-16	DIODE		9							
12	013-224		VR1	DIODE, Zener		1							
15	013-650		CR17	DIODE		1							
16	014-383		Q1	TRANSISTOR		1							
17	014-506		Q2,4	TRANSISTOR		2							
18	014-631		Q3	TRANSISTOR, Dual		1							
21	014-712		Q3	MOUNTING PAD, Transistor		1							
22	035-883		C25,31,36	CAPACITOR, Mylar, .068μF, 50V, 5%		3							
23	035-828		C34,43	CAPACITOR, Mylar, .022μF, 50V, 5%		2							
24	030-094		C10,13,46,47,49	CAPACITOR, Monolythic, 1.0μF, 25V, 20%		5							
26	030-966		C1,2,15,18,19,22,24,26,28,30,33,35	CAPACITOR, Ceramic, .01μF, 100V,10%		12							
28	035-816		C38,42	CAPACITOR, Mylar, .018μF, 50V, 5%		2							
30	035-893		C37	CAPACITOR, Mylar, .1μF, 50V, 5%		1							
31	035-734		C12,44	CAPACITOR, Mylar, .01μF, 50V, 5%		2							
33	037-109		C29	CAPACITOR, Tantalum, 10μF, 20V, 10%		1							
34	037-136		C14,16,23	CAPACITOR, Tantalum, 39μF, 10V, 10%		3							
35	037-186		C9,41,48	CAPACITOR, Tantalum, 120μF, 10V, 10%		3							
37	037-620		C8,45	CAPACITOR, Tantalum, 100μF, 20V, 10%		2							
38	037-985		C6	CAPACITOR, Tantalum, 15μF, 20V, 10%		1							
39	037-991		C17	CAPACITOR, Tantalum, 22μF, 15V, 10%		1							
40	037-728		C27	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		1							
41	041-010		R43	RESISTOR, Comp., 2K ohm, 1/2W, 5%		1							
43	041-014		R36	RESISTOR, Comp., 10K ohm, 1/2W, 5%		1							
44	041-015		R8	RESISTOR, Comp., 27K ohm, 1/2W, 5%		1							
46	041-454		R1,5,7,12,15,17,20,23,27,28,31,33	RESISTOR, Comp., 39 ohm, 1/2W, 5%		12							
47	041-245		R39,40	RESISTOR, Comp., 1K ohm, 1/2W, 5%		2							
48	041-455		R3,6,10,11,14,19,24,25,30,35,46	RESISTOR, Comp., 6.2K ohm, 1/2W, 5%		11							

X1364275J



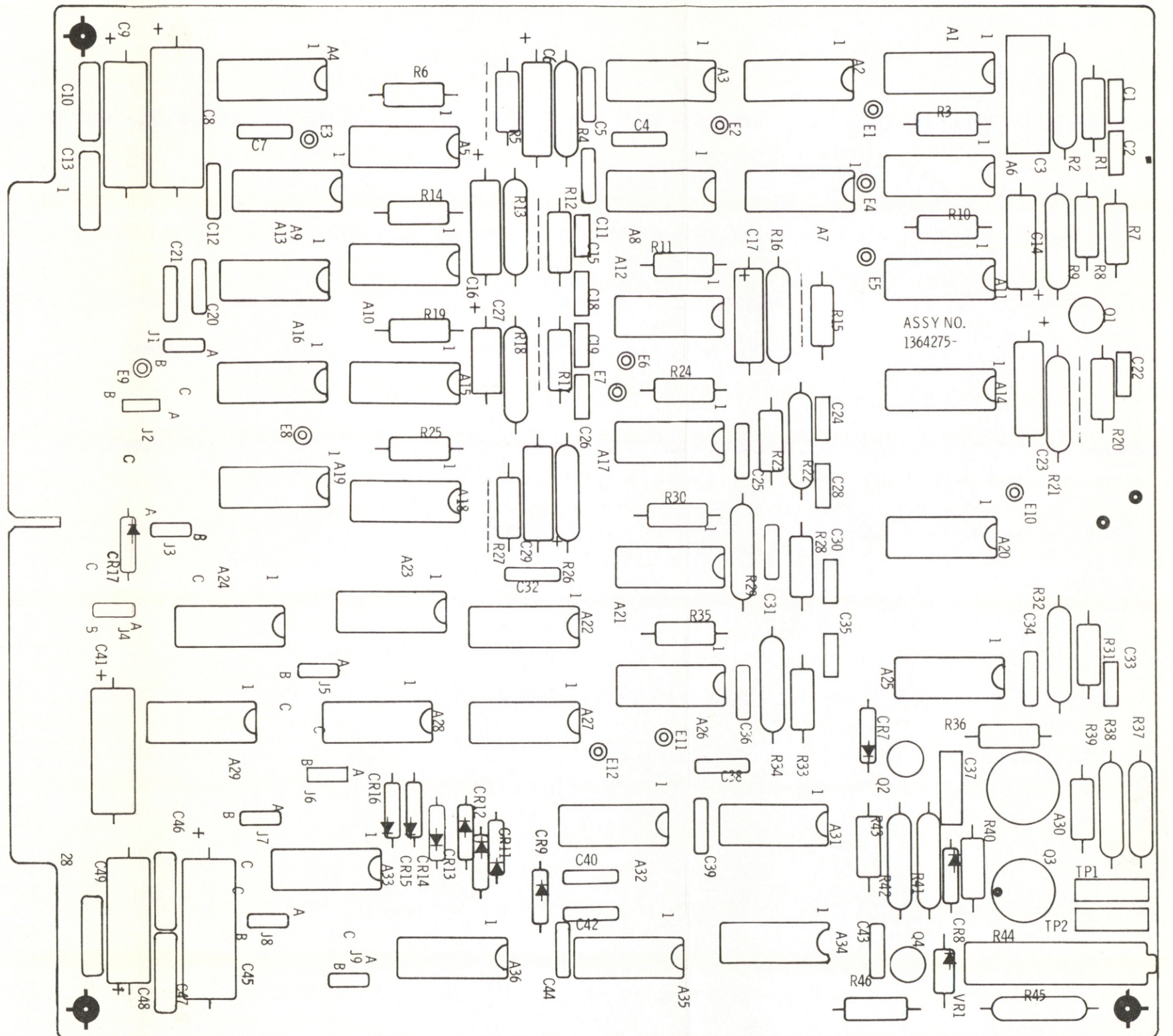
SERVO LOGIC 'A' PRINTED WIRING ASSEMBLY (MODULE 141)					CATALOG NO. X1364275		SHEET 2 OF 3						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-07							
49	057-386		R21	RESISTOR, Metal Film, 30.1K ohm, 1/4W, 1%		1							
54	062-652		R9	RESISTOR, Metal Film, 158K ohm, 1/4W, 1%		1							
57	055-133		C4, 5, 7, 11, 20, 21, 39	CAPACITOR, Mylar, .0022μF, 50V, 5%		7							
58	055-156		C3	CAPACITOR, Mylar, .22μF, 50V, 5%		1							
59	055-166		C32	CAPACITOR, Mylar, .001μF, 50V, 5%		1							
60	055-167		C40	CAPACITOR, Mylar, .0033μF, 50V, 5%		1							
61	057-801		R16	RESISTOR, Metal Film, 28K ohm, 1/4W, 1%		1							
62	057-235		R2	RESISTOR, Metal Film, 34.8K ohm, 1/4W, 1%		1							
63	057-173		R41	RESISTOR, Metal Film, 5.62K ohm, 1/4W, 1%		1							
64	057-649		R37	RESISTOR, Metal Film, 3.65K ohm, 1/4W, 1%		1							
67	057-915		R42	RESISTOR, Metal Film, 4.53K ohm, 1/4W, 1%		1							
71	143-981		J1-9A, B, C	CONNECTOR, Tip Jack, printed circuit		27							
72	062-651		R38	RESISTOR, Metal Film, 24.3K ohm, 1/4W, 1%		1							
74	148-028		TP2	CONNECTOR, Tip Jack, white		1							
75	042-475		R32	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1%		1							
76	148-052		TP1	CONNECTOR, Tip Jack, black		1							
77	042-481		R45	RESISTOR, Metal Film, 2.74K ohm, 1/4W, 1%		1							
78	044-198		R44	RESISTOR, Variable, wirewound, 1K ohm, 1W		1 1							
79	173-620		E1-12	TERMINAL STUD, Turret		12							
81	280-130		Q1, 2, 4	MOUNTING PAD, Transistor		3							
82	280-173		A30	SPACER, Integrated Circuit, 8 pin		1							
85	586-151	MC830P	A28, 33, 36	INTEGRATED CIRCUIT		3							
86	586-152	MC836P	A3, 8, 9, 13, 23, 31, 32, 35	INTEGRATED CIRCUIT		8							
87	586-153	MC846P	A2, 4, 7, 16, 22, 27, 29, 34	INTEGRATED CIRCUIT		8							
88	586-155	MC862P	A19, 24	INTEGRATED CIRCUIT		2							
89	586-269	μA741C	A30	INTEGRATED CIRCUIT		1							
90	586-309	μL9601	A1, 5, 6, 10-12, 15, 17, 18, 21, 25, 26	INTEGRATED CIRCUIT		12							

X1364275J

SERVO LOGIC 'A' PRINTED WIRING ASSEMBLY (MODULE 141)					CATALOG NO. X1364275		SHEET 3 OF 3						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-07							
92	586-425	MC853P	A14,20	INTEGRATED CIRCUIT		2							
94	600-232			SLEEVING, Teflon, #24		A/R							
95	602-012		J1-9	PLUG, Shorting, red		9							
97	615-004			WIRE, #24 AWG, bare		A/R							
101	048-790		R13	RESISTOR, Metal Film, 37.4K ohm, 1/4W, 1%		1							
102	062-416		R22,34	RESISTOR, Metal Film, 40.2K ohm, 1/4W, 1%		2							
103	062-465		R18,29	RESISTOR, Metal Film, 29.4K ohm, 1/4W, 1%		2							
104	062-464		R4,26	RESISTOR, Metal Film, 16.9K ohm, 1/4W, 1%		2							

X1364275J

AMPEX



Servo Logic "A" Printed Wiring Assembly (Module 141)  
Drawing No. 1364275J

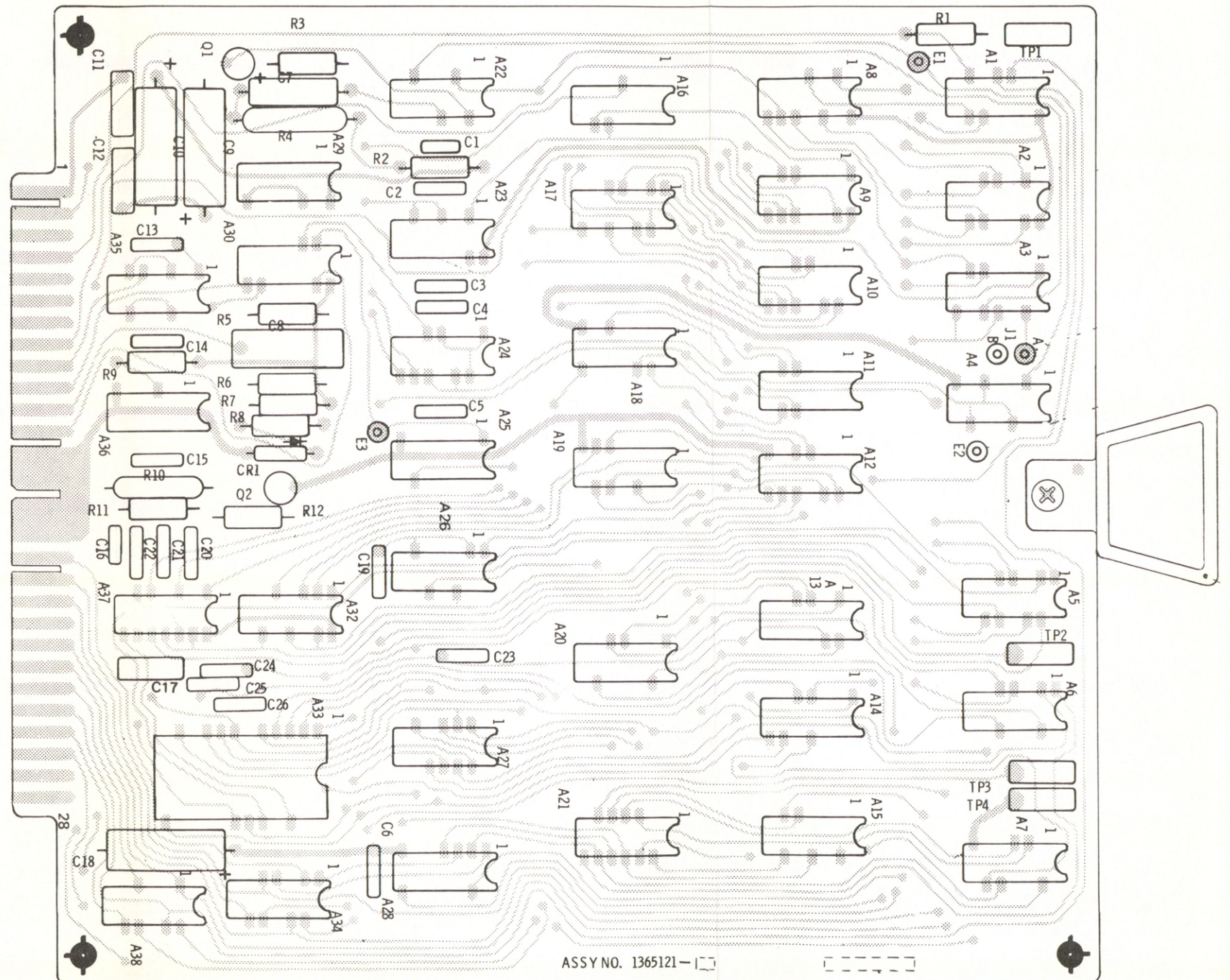


SERVO LOGIC B PRINTED WIRING ASSEMBLY (MODULE 142)				CATALOG NO. 1365121		SHEET 1 OF 1 NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1365123			SCHEMATIC		REF					
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		1					
9	501-008			WASHER, Plain, #4		1					
13	013-689		CR1	DIODE		1					
15	014-383		Q1	TRANSISTOR		1					
16	014-506		Q2	TRANSISTOR		1					
17	030-094		C11,12,17	CAPACITOR, Monolithic, 1μF, 25V, 20%		3					
18	030-966		C1,16	CAPACITOR, Ceramic, .01μF, 100V, 10%		2					
19	035-815		C15	CAPACITOR, Mylar, .027μF, 50V, 5%		1					
20	037-109		C7	CAPACITOR, Tantalum, 10μF, 20V, 10%		1					
21	037-186		C10	CAPACITOR, Tantalum, 120μF, 10V, 10%		1					
22	037-620		C9,18	CAPACITOR, Tantalum, 100μF, 20V, 10%		2					
23	035-734		C6	CAPACITOR, Mylar, .01μF, 50V, 5%		1					
24	041-245		R1,5,6	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		3					
25	041-014		R9	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		1					
26	041-015		R3	RESISTOR, Fixed, 27K ohm, 1/2W, 5%		1					
27	041-020		R7	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		1					
28	041-454		R2,11	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		2					
29	041-013		R8	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		1					
30	048-417		R4	RESISTOR, Metal Film, 143K ohm, 1/2W, 1%		1					
31	062-264		R10	RESISTOR, Metal Film, 25.5K ohm, 1/4W, 1%		1					
32	041-455		R12	RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		1					
33	055-133		C2,4,5,13,14	CAPACITOR, Mylar, .0022μF, 50V, 5%		5					
34	055-156		C8	CAPACITOR, Mylar, .22μF, 50V, 5%		1					
35	055-166		C3,19-26	CAPACITOR, Mylar, .001μF, 50V, 5%		9					
38	280-130		Q1,2	MOUNTING PAD, Transistor		2					
41	586-151	MC830P	A10-13,17-20	INTEGRATED CIRCUIT		8					
42	586-152	MC836P	A27,8,14,3,28,37,32,23,35,24	INTEGRATED CIRCUIT		10					
43	586-153	MC846P	A4-6,30,34,38,26,29	INTEGRATED CIRCUIT		8					
44	586-155	MC862P	A1,2,7,21,15	INTEGRATED CIRCUIT		5					
46	586-309	F9601	A22,36	INTEGRATED CIRCUIT		2					
47	586-425	MC853P	A9,16,25	INTEGRATED CIRCUIT		3					
48	586-435	F9308	A33	INTEGRATED CIRCUIT		1					
50	143-981		J1-A, B	CONNECTOR, Printed Circuit, tip jack		2					
51	148-028		TP1-3	CONNECTOR, Tip Jack, white		3					
52	148-052		TP4	CONNECTOR, Tip Jack, black		1					
55	173-620		E1-3	TERMINAL STUD, Turret, swage		3					
58	602-012		J1	PLUG, Shorting, red		1					
60				LABEL		1					

X1365121B



AMPEX



Servo Logic "B" Printed Wiring Assembly  
(Module 142) Dwg. No. 1365121



HEAD TACH PROCESSOR PRINTED WIRING ASSEMBLY (MODULE 143)				CATALOG NO. 1364269		SHEET 1 OF 2					
						NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364271			SCHEMATIC		REF					
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		1					
9	501-008			WASHER, Plain, #4		1					
12	013-166		VR1-12	DIODE, Zener, 3.3V		12					
13	013-689		CR1,2	DIODE		2					
14	014-506		Q1,4	TRANSISTOR		2					
15	014-600		Q3	TRANSISTOR		1					
16	014-631		Q2	TRANSISTOR, Dual		1					
17	014-712		Q2	MOUNTING PAD, Transistor, dual		1					
18	030-094		C10,11,21,22, 30,31,35,36,39, 40,41,47,48,50	CAPACITOR, Monolithic, 1 $\mu$ F, 25V, 20%		14					
19	030-223		C26,34,42	CAPACITOR, Monolithic, 2.2 $\mu$ F, 25V, 20%		3					
20	030-966		C2,4-9,12-20, 23-25,27-29, 32,33,37,38	CAPACITOR, Ceramic, .01 $\mu$ F, 100V, 10%		26					
21	035-814		C3	CAPACITOR, Mylar, .033 $\mu$ F, 50V, 5%		1					
22	037-186		C43,45,49	CAPACITOR, Tantalum, 120 $\mu$ F, 10V, 10%		3					
23	037-620		C44,46	CAPACITOR, Tantalum, 100 $\mu$ F, 20V, 10%		2					
25	041-010		R45-50,58,59	RESISTOR, Fixed, 2K ohm, 1/2W, 5%		8					
26	041-012		R6,54	RESISTOR, Fixed, 4.3K ohm, 1/2W, 5%		2					
27	041-017		R13	RESISTOR, Fixed, 33K ohm, 1/2W, 5%		1					
28	041-245		R1-3,5,11,12,17	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		7					
29	041-273		R53,55	RESISTOR, Fixed, 270 ohm, 1/2W, 5%		2					
30	041-384		R14	RESISTOR, Fixed, 68 ohm, 1/2W, 5%		1					
31	041-404		R23	RESISTOR, Fixed, 510 ohm, 1/2W, 5%		1					
32	041-473		R30,31,39,40, 43,44,56,57	RESISTOR, Fixed, 240 ohm, 1/2W, 5%		8					
33	041-478		R4	RESISTOR, Fixed, 1.1K ohm, 1/2W, 5%		1					
34	041-526		R8	RESISTOR, Fixed, 1.6K ohm, 1/2W, 5%		1					
35	041-950		R7	RESISTOR, Fixed, 16K ohm, 1/2W, 5%		1					
36	042-471		R26,28,35-38	RESISTOR, Metal Film, 100 ohm, 1/4W, 1%		6					
37	042-475		R32	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1%		1					
38	042-478		R19,20	RESISTOR, Metal Film, 200 ohm, 1/4W, 1%		2					
40	044-792		R10	RESISTOR, Variable, 500 ohm, 1W, 10%		1					
41	048-655		R18	RESISTOR, Metal Film, 2.37K ohm, 1/4W, 1%		1					
42	048-728		R9	RESISTOR, Metal Film, 1.37K ohm, 1/4W, 1%		1					
45	055-817		C1	CAPACITOR, Polycarbonate, .0047 $\mu$ F, 100V, 1%		1					
46	057-453		R16,21,51,52, 60,61	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		6					
47	057-796		R24,25,27,29, 33,34	RESISTOR, Metal Film, 5.90K ohm, 1/4W, 1%		6					
48	057-918		R15,22	RESISTOR, Metal Film, 9.09K ohm, 1/4W, 1%		2					

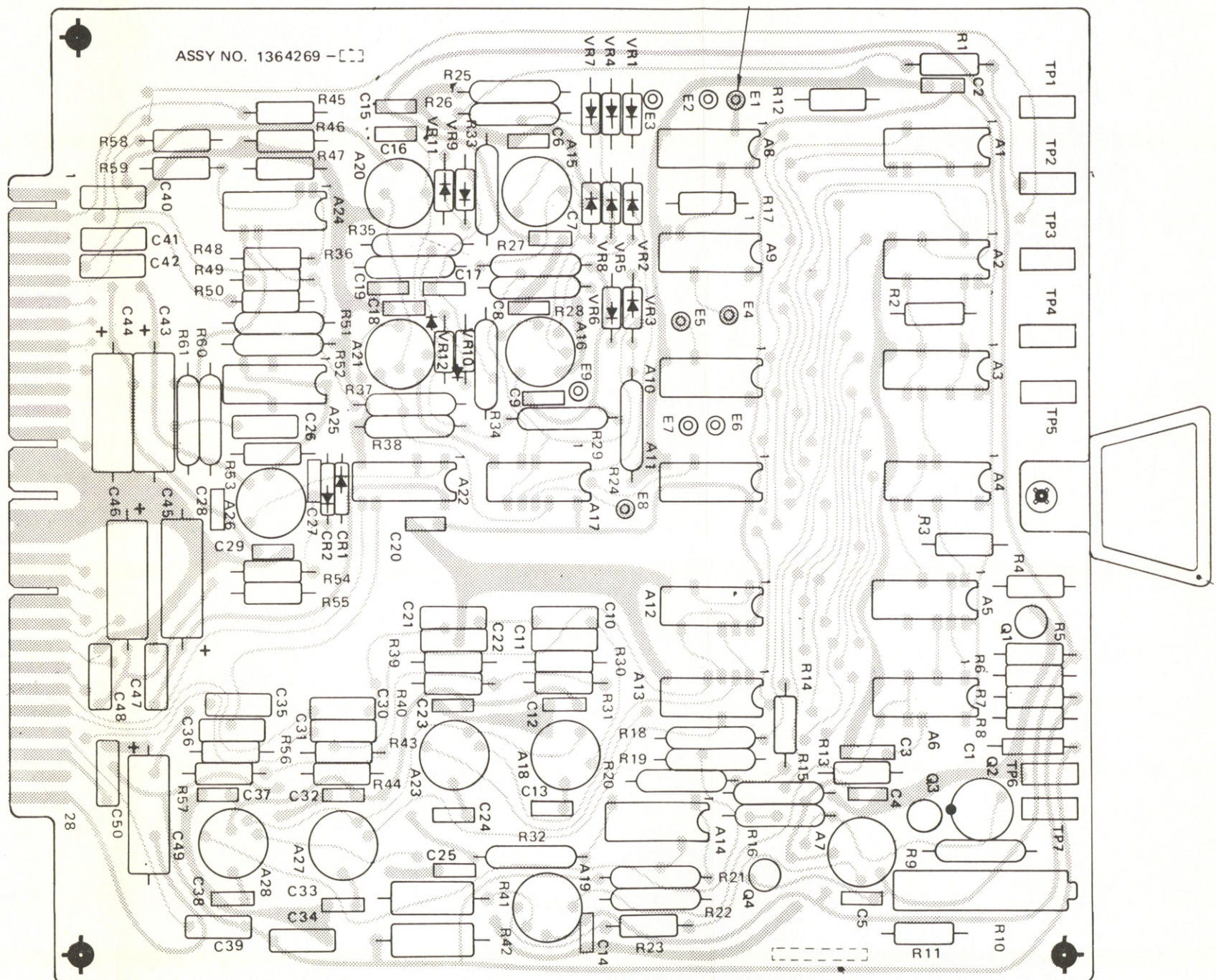
X1364269C



HEAD TACH PROCESSOR PRINTED WIRING ASSEMBLY (MODULE 143)					CATALOG NO.	1364269	SHEET 2 OF 2						
					NHA 1366025								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
50	062-443		R41, 42	RESISTOR, Metal Film, 1K ohm, 1/2W, .1%		2							
52	148-028		TP1-5, 7	TIP JACK, White		6							
53	148-052		TP6	TIP JACK, Black		1							
54	173-620		E1-9	TERMINAL STUD, Turret		9							
56	280-130		Q1, 3, 4	MOUNTING PAD, Transistor		3							
57	280-173		A7, 15, 16, 19, 20, 21, 26	MOUNTING PAD, Integrated Circuit		7							
58	280-174		A18, 23, 27, 28	MOUNTING PAD, Integrated Circuit		4							
60	586-098	F948	A8-11	INTEGRATED CIRCUIT		4							
61	586-121	F711	A18, 23, 27, 28	INTEGRATED CIRCUIT		4							
62	586-152	MC836P	A6, 13, 22	INTEGRATED CIRCUIT		3							
63	586-153	MC846P	A3-5, 12, 17	INTEGRATED CIRCUIT		5							
64	586-261	LM302H	A7	INTEGRATED CIRCUIT		1							
65	586-268	F741C	A25	INTEGRATED CIRCUIT		1							
66	586-335	LM306	A15, 16, 19, 20, 21, 26	INTEGRATED CIRCUIT		6							
67	586-415	MC857P	A1, 2	INTEGRATED CIRCUIT		2							
68	586-440	F747C	A14, 24	INTEGRATED CIRCUIT		2							

X1364269C

AMPEX



Head Tach Processor Printed Wiring Assembly  
(Module 143) Dwg. No. 1364269



FREQUENCY DISCRIMINATOR HEAD AND DC PREAMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 144)					CATALOG NO. 1364272		SHEET 1 OF 3							
					NHA 1366025									
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
2	1364274			SCHEMATIC		REF								
3	1363791-01			HANDLE		1								
4	1366200			OUTLINE DRAWING, Printed Wiring Board		REF								
6	Pending			LABEL		1								
7	013-689		CR1-13	DIODE		13								
9	014-248		Q17	TRANSISTOR		1								
10	014-387		Q11	TRANSISTOR		1								
11	014-505		Q2, 4, 6, 10	TRANSISTOR		4								
12	014-506		Q1, 3, 13, 14, 16	TRANSISTOR		5								
13	014-600		Q7, 8	TRANSISTOR		2								
14	014-631		Q5, 15	TRANSISTOR		2								
15	014-712		Q5, 15	SPACER, Transistor, dual, 6 pin		2								
16	014-847		K1	SPACER, Relay		1								
19	020-511		K1	RELAY, Armature, SPDT		1								
21	030-094		C8, 16, 32, 41	CAPACITOR, Monolithic, 1μF, 25V, 20%		4								
22	030-966		C2, 4-6, 13, 14, 18, 23, 24, 26, 27, 30, 31, 45	CAPACITOR, Ceramic, .01μF, 100V, 10%		14								
23	034-927		C19	CAPACITOR, Mica, 680PF, 500V, 5%		1								
24	035-598		C29	CAPACITOR, Mylar, .047μF, 50V, 5%		1								
25	035-730		C11	CAPACITOR, Mylar, .0047μF, 50V, 5%		1								
26	055-195		C12	CAPACITOR, Mylar, .0068μF, 50V, 5%		1								
27	035-893		C39	CAPACITOR, Mylar, .1μF, 50V, 5%		1								
28	037-152		C40	CAPACITOR, Tantalum, 82μF, 50V, 20%		1								
29	037-170		C34, 35	CAPACITOR, Tantalum, 5.6μF, 35V, 10%		2								
30	037-186		C9, 33	CAPACITOR, Tantalum, 120μF, 10V, 10%		2								
31	037-620		C17, 36, 37, 42	CAPACITOR, Tantalum, 100μF, 20V, 10%		4								
32	037-725		C46, 47	CAPACITOR, Tantalum, 1.8μF, 20V, 10%		2								
33	037-740		C3, 44	CAPACITOR, Tantalum, 33μF, 10V, 10%		2								
34	037-985		C1, 7, 21	CAPACITOR, Tantalum, 15μF, 20V, 10%		3								
37	041-001		R46	RESISTOR, Fixed, 5.1K ohm, 1/2W, 5%		1								
38	041-003		R42, 44, 87	RESISTOR, Fixed, 100 ohm, 1/2W, 5%		3								
39	041-007		R13, 57	RESISTOR, Fixed, 750 ohm, 1/2W, 5%		2								
40	041-008		R12	RESISTOR, Fixed, 1.5K ohm, 1/2W, 5%		1								
41	041-013		R16, 37, 64	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		3								
42	041-014		R26, 39, 52, 54, 56, 61, 70, 76	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		8								
43	041-017		R45, 48	RESISTOR, Fixed, 33K ohm, 1/2W, 5%		2								
44	041-015		R28	RESISTOR, Fixed, 27K ohm, 1/2W, 5%		1								
45	041-016		R20, 24, 63	RESISTOR, Fixed, 22K ohm, 1/2W, 5%		3								
46	041-023		R60	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		1								
47	041-245		R3, 6, 9, 10, 14, 17, 21, 34, 40, 43, 47, 59, 62, 79, 83, 93	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		16								
48	041-263		R84	RESISTOR, Fixed, 2.2K ohm, 1W, 5%		1								
49	041-316		R18	RESISTOR, Fixed, 2.4K ohm, 1/2W, 5%		1								
50	041-330		R11, 15, 85	RESISTOR, Fixed, 6.8K ohm, 1/2W, 5%		3								

X1364272C



FREQUENCY DISCRIMINATOR HEAD AND DC PREAMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 144)					CATALOG NO.	1364272	SHEET 2 OF 3						
					NHA 1366025								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
51	041-331		R55, 69, 71	RESISTOR, Fixed, 3.3K ohm, 1/2W, 5%		3							
52	041-344		R75	RESISTOR, Fixed, ,390 ohm, 1/2W, 5%		1							
53	041-020		R19, 36	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		2							
54	041-357		R66	RESISTOR, Fixed, 5.6K ohm, 1/2W, 5%		1							
55	041-358		R49	RESISTOR, Fixed, 62K ohm, 1/2W, 5%		1							
56	041-384		R67	RESISTOR, Fixed, 68 ohm, 1/2W, 5%		1							
57	041-404		R58	RESISTOR, Fixed, 510 ohm, 1/2W, 5%		1							
58	041-420		R65, 88, 89	RESISTOR, Fixed, 12K ohm, 1/2W, 5%		3							
59	041-454		R1, 5, 8, 22, 91	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		5							
60	041-455		R92	RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		1							
61	041-475		R25, 50, 51	RESISTOR, Fixed, 3K ohm, 1/2W, 5%		3							
62	041-246		R38	RESISTOR, Fixed, 82K ohm, 1/2W, 5%		1							
63	041-516		R86	RESISTOR, Fixed, 75 ohm, 1/2W, 5%		1							
65	041-477		R74	RESISTOR, Fixed, 13K ohm, 1/2W, 5%		1							
66	041-588		R53	RESISTOR, Fixed, 560K ohm, 1/2W, 5%		1							
67	041-593		R41	RESISTOR, Fixed, 110 ohm, 1/2W, 5%		1							
68	041-602		R29	RESISTOR, Fixed, 2K ohm, 1W, 5%		1							
69	041-604		R82	RESISTOR, Fixed, 11K ohm, 1/2W, 5%		1							
74	048-758		R78, 81	RESISTOR, Metal Film, 30.1K ohm, 1/2W, 1%		2							
75	048-794		R30-33, 77, 80	RESISTOR, Metal Film, 1K ohm, 1/2W, 1%		6							
76	048-816		R2, 7	RESISTOR, Metal Film, 8.66K ohm, 1/2W, 1%		2							
79	055-135		C43	CAPACITOR, Mylar, .0027μF, 50V, 5%		1							
80	055-166		C15, 48	CAPACITOR, Mylar, .001μF, 50V, 5%		2							
81	055-167		C28	CAPACITOR, Mylar, .0033μF, 50V, 5%		1							
82	055-638		C22	CAPACITOR, Polycarbonate, .01μF, 100V, 1%		1							
83	056-140		C10, 20, 25, 49	CAPACITOR, Mica, 20PF, 500V, ±0.5PF		4							
84	057-628		R23	RESISTOR, Metal Film, 23.2K ohm, 1/2W, 1%		1							
85	057-726		R90	RESISTOR, Metal Film, 17.4K ohm, 1/2W, 1%		1							
86	058-170		R35	RESISTOR, Variable, 10K ohm, 1W, 10%		1							
88	062-460		R4	RESISTOR, Metal Film, 7.68K ohm, 1/2W, 1%		1							
89	062-461		R27	RESISTOR, Metal Film, 46.4K ohm, 1/2W, 1%		1							
91	143-981		J1A, B -J3A, B	JACK, Closed Entry		6							
92	148-028		TP1-3, 5	TIP JACK, White		4							
93	148-052		TP4	TIP JACK, Black		1							
94	173-620		E1	TERMINAL STUD, Turret 8		1							
96	280-130	TO-18	Q1-4, 6-14, 16, 17	MOUNTING PAD, Transistor, 3 pin		15							
97	280-173	TO-5	A11-13	MOUNTING PAD, Transistor, 8 pin		3							
98	280-174	TO-5	A6	MOUNTING PAD, Transistor, 10 pin		1							
100	471-061			SCREW, Pan Head, 4-40 x .312		1							
102	496-004			NUT, Assembled Washer, 4-40		1							
103	501-008			WASHER, Flat, #4		1							
105	580-133	2N4093, style 3	Q9, 12	TRANSISTOR, FET		2							

X1364272C

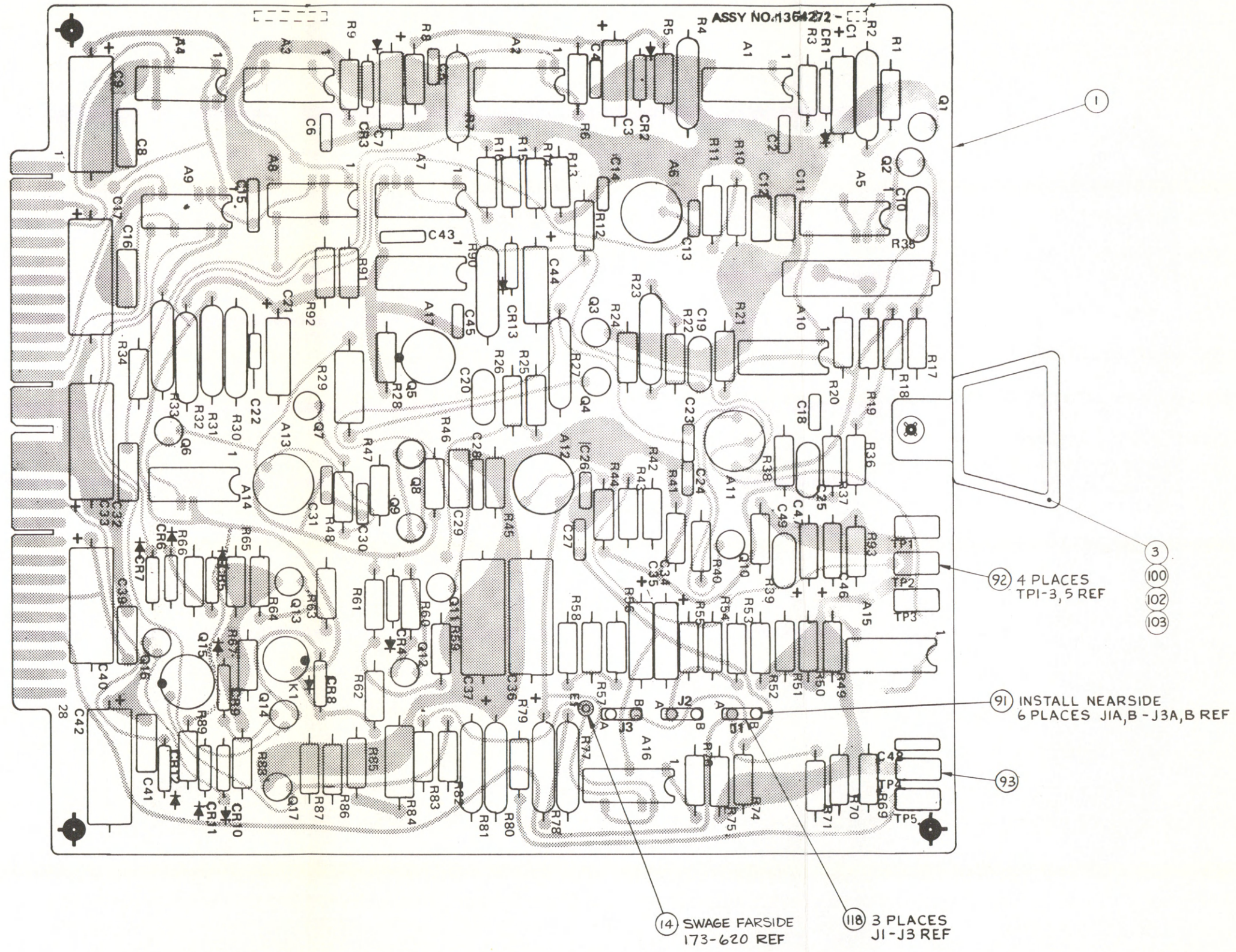
FREQUENCY DISCRIMINATOR HEAD AND DC PREAMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 144)					CATALOG NO. 1364272	SHEET 3 OF 3					
						NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
109	586-121	F711C	A6	INTEGRATED CIRCUIT		1					
110	586-152	MC836P	A5,9	INTEGRATED CIRCUIT		2					
111	586-153	MC846P	A4,7,8	INTEGRATED CIRCUIT		3					
112	586-261	LM302H	A12,13	INTEGRATED CIRCUIT		2					
113	586-268	F741C	A14	INTEGRATED CIRCUIT		1					
114	586-309	F9601	A1-3,10,17	INTEGRATED CIRCUIT		5					
115	586-335	LM306M	A11	INTEGRATED CIRCUIT		1					
116	586-440	F747C	A15,16	INTEGRATED CIRCUIT		2					
118	602-012		J1-3	PLUG, Shorting, red		3					

X1364272C

10-499/500



AMPEX



Frequency Discriminator Head and DC Preamplifier  
Printed Wiring Assembly (Module 144)  
Dwg. No. 1364272



HEAD PHASE COMPARATOR PRINTED WIRING ASSEMBLY (MODULE 145)						CATALOG NO. X1364278		SHEET 1 OF 2					
								NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364280			SCHEMATIC		REF							
11	013-224		VR1	DIODE, Zener		1							
12	013-689		CR3	DIODE		1							
15	014-248		Q9	TRANSISTOR		1							
16	014-505		Q2,5,10	TRANSISTOR		3							
17	014-506		Q1,6	TRANSISTOR		2							
18	014-600		Q3,7	TRANSISTOR		2							
19	580-133	2N4093	Q4,8	TRANSISTOR		2							
22	030-094		C18,19,43,44	CAPACITOR, Ceramic, 1.0μF, 25V, 20%		4							
23	030-966		C3,6,11,14,16,22,24,27,29,33,38,39,47,48	CAPACITOR, Ceramic, .01μF, 100V,10%		14							
24	035-598		C15	CAPACITOR, Mylar, .047μF, 50V, 5%		1							
25	035-734		C7,12,17,23,25,30,36,37,45,46	CAPACITOR, Mylar, .01μF, 50V, 5%		10							
27	037-186		C9,55	CAPACITOR, Tantalum, 120μF, 16V,10%		2							
28	037-367		C34	CAPACITOR, Tantalum, 2.2μF, 20V,10%		1							
29	037-620		C28,35	CAPACITOR, Tantalum, 100μF, 20V, 10%		2							
30	037-985		C26,51,52	CAPACITOR, Tantalum, 15μF, 20V, 10%		3							
31	037-991		C2	CAPACITOR, Tantalum, 22μF, 15V, 10%		1							
32	055-133		C10,31,32,42,53	CAPACITOR, Mylar, .0022μF, 50V, 5%		5							
33	055-166		C40,49	CAPACITOR, Mylar, .001μF, 50V, 5%		2							
34	055-168		C1,4,5,8,13,20,21,41,54	CAPACITOR, Mylar, .0056μF, 50V, 5%		9							
35	055-809		C50	CAPACITOR, Polycarbonate, .047μF, 100V, .1%		1							
38	041-408		R8	RESISTOR, Comp., 10K ohm, 1/4W, 5%		1							
39	041-410		R24,27,39,48	RESISTOR, Comp., 1K ohm, 1/4W, 5%		4							
40	041-413		R37	RESISTOR, Comp., 6.8K ohm, 1/4W, 5%		1							
41	041-440		R47	RESISTOR, Comp., 1.2K ohm, 1/4W, 5%		1							
42	041-507		R3,15,20,23	RESISTOR, Comp., 5.6K ohm, 1/4W, 5%		4							
43	041-518		R31,43	RESISTOR, Comp., 33K ohm, 1/4W, 5%		2							
44	041-538		R28,40	RESISTOR, Comp., 6.2K ohm, 1/4W, 5%		2							
45	041-653		R1,4,6,9,11,13,16,19,21,25	RESISTOR, Comp., 39 ohm, 1/4W, 5%		10							
46	042-483		R30,42	RESISTOR, Metal Film, 15K ohm, 1/4W, 1%		2							
47	062-299		R2	RESISTOR, Metal Film, 26.7K ohm, 1/4W, 1%		1							

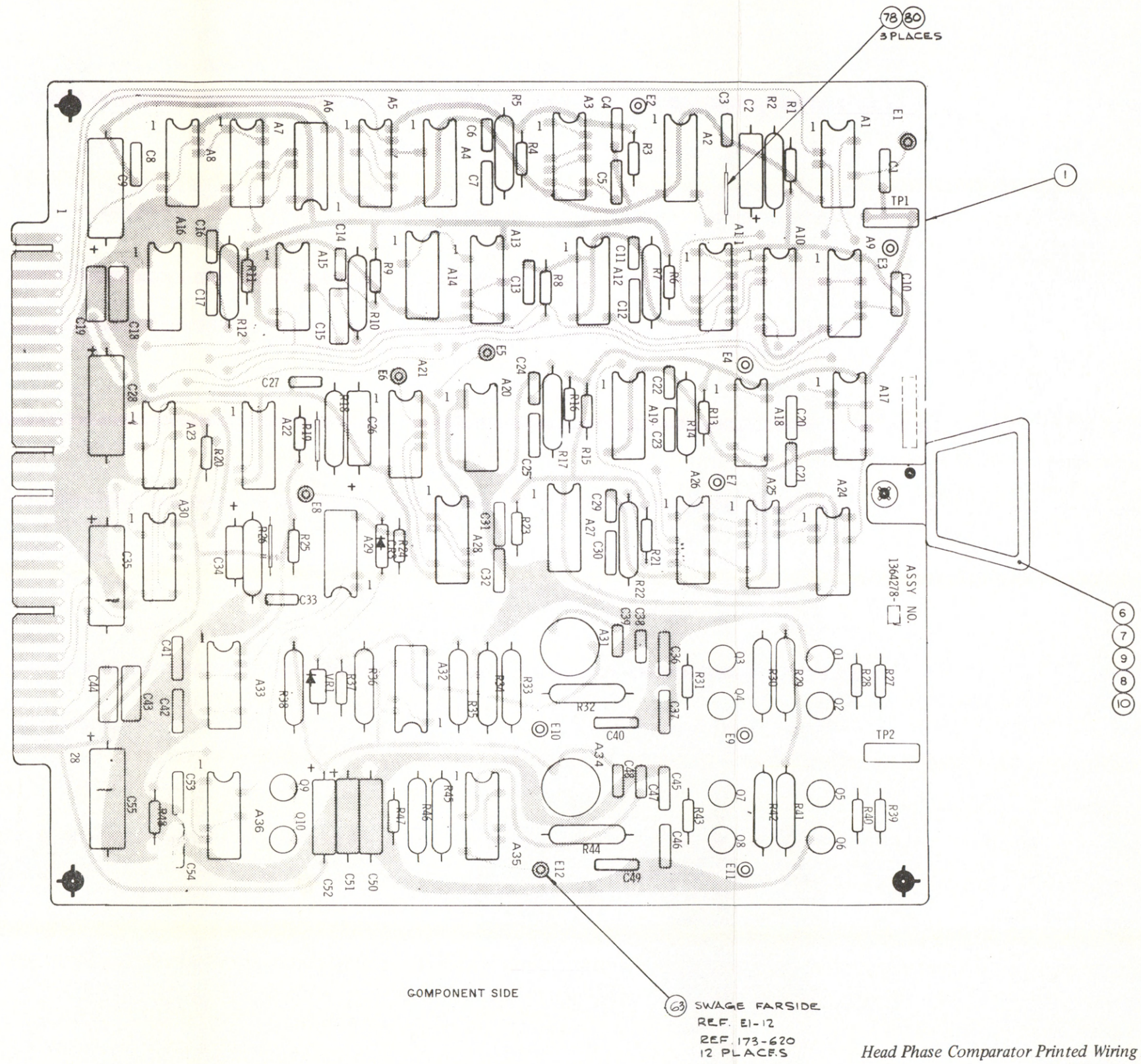
X1364278B

HEAD PHASE COMPARATOR PRINTED WIRING ASSEMBLY (MODULE 145)					CATALOG NO. X1364278	SHEET 2 OF 2									
					NHA 1366025										
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-01									
48	062-450		R33-36	RESISTOR, Metal Film, 6K ohm, .40W, .1%		4									
49	062-497		R17,22	RESISTOR, Metal Film, 9.76K ohm, 1/4W, 1%		2									
50	062-653		R26	RESISTOR, Metal Film, 15.8K ohm, 1/4W, 1%		1									
51	042-469		R7,10,14	RESISTOR, Metal Film, 33.2K ohm, 1/4W, 1%		3									
52	042-471		R32,44	RESISTOR, Metal Film, 100 ohm, 1/4W, 1%		2									
56	062-486		R29,41	RESISTOR, Metal Film, 60.4K ohm, 1/4W, 1%		2									
57	048-619		R45,46	RESISTOR, Metal Film, 2.49K ohm, 1/4W, 1%		2									
58	048-819<		R5,12	RESISTOR, Metal Film, 20K ohm, 1/4W, 1%		2									
59	148-028		TP2	CONNECTOR, Tip Jack, white		1									
60	148-052		TP1	CONNECTOR, Tip Jack, black		1									
61	057-797		R18	RESISTOR, Metal Film, 8.66K ohm, 1/4W, 1%		1									
62	057-940		R38	RESISTOR, Metal Film, 54.9K ohm, 1/4W, 1%		1									
63	173-620		E1-12	TERMINAL STUD, Turret		12									
66	280-130		Q1-10	MOUNTING PAD, Transistor		10									
67	280-173		A31,34	MOUNTING PAD, Integrated Circuit		2									
70	586-152	MC836P	A1,3,8,13,18,25,28,30,33,36	INTEGRATED CIRCUIT		10									
71	586-153	MC846P	A5,9,14,17,23,26	INTEGRATED CIRCUIT		6									
72	586-155	MC862P	A21,24	INTEGRATED CIRCUIT		2									
73	586-579	LM102	A31,34	INTEGRATED CIRCUIT		2									
74	586-309	9601	A2,4,12,15,16,19,20,22,27,29	INTEGRATED CIRCUIT		10									
75	586-425	MC853P	A6,7,10,11	INTEGRATED CIRCUIT		4									
76	586-440	747C	A32,35	INTEGRATED CIRCUIT		2									
78	600-237			SLEEVING, Teflon, #24		A/R									
80	615-004			WIRE, Bare, 24 AWG		A/R									

X1364278B



AMPEX





HEAD WHEEL AUTO PHASING PRINTED WIRING ASSEMBLY (MODULE 146)					CATALOG NO. 1366635		SHEET 1 OF 2						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
3	1366636			SCHEMATIC		REF							
4	013-689		CR1-22	DIODE		22							
5	014-505		Q2,4,6,10,12,14	TRANSISTOR, PNP		6							
6	1363791-01			HANDLE, Printed Wiring Board		1							
7	471-061			SCREW, Cross-Recess, pan head, 4-40 x .312		1							
8	496-004			NUT, Assembly Washer, 4-40		1							
9	501-008			WASHER, Plain, #4		1							
10	014-506		Q1,3,5,7,9,11,13	TRANSISTOR, NPN		7							
11	030-094		C3,6,19	CAPACITOR, Mono, 1μF, 25V		3							
12	030-966		C8,9,13,15	CAPACITOR, Ceramic, .01μF, 100V		4							
14	035-814		C7	CAPACITOR, Mylar, .033μF, 50V, 5%		1							
16	037-186		C5,10,14	CAPACITOR, Tantalum, 120μF, 10V, 10%		3							
17	037-620		C4,18	CAPACITOR, Tantalum, 100μF, 20V, 10%		2							
19	037-507		C17	CAPACITOR, Tantalum, 150μF, 15V, 10%		1							
21	041-004		R21,22,30	RESISTOR, Fixed, 220 ohm, 1/2W, 5%		3							
22	034-326		C1,2,11	CAPACITOR, Mica, 750pF, 00V, 5%		3							
23	041-014		R17,43	RESISTOR, Fixed, 10k ohm, 1/2W, 5%		2							
24	035-730		C16	CAPACITOR, Mylar, .0047μF, 50V, 5%		1							
25	055-166		C12	CAPACITOR, Mylar, .001μF, 50V, 5%		1							
27	041-245		R7,8,15,19,31,45	RESISTOR, Fixed, 1k ohm, 1/2W, 5%		6							
29	041-420		R2,10,20,23,25,33-35,37,51,61	RESISTOR, Fixed, 12k ohm, 1/2W, 5%		11							
30	041-454		R18,44,58	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		3							
33	041-535		R16	RESISTOR, Fixed, 30k ohm, 1/2W, 5%		1							
34	042-471		R6,14	RESISTOR, Fixed, 100 ohm, 1/4W, 1%		2							
35	042-478		R29	RESISTOR, Fixed, 200 ohm, 1/4W, 1%		1							
36	1368188-39			LABEL, Modules		1							
38	048-618		R4,12,27,39,53,63	RESISTOR, Fixed, 2k ohm, 1/4W, 1%		6							
40	057-789		R41	RESISTOR, Fixed, 402 ohm, 1/4W, 1%		1							
41	057-882		R55	RESISTOR, Fixed, 806 ohm, 1/4W, 1%		1							
43	044-767		R56	RESISTOR, Variable, 5k ohm, 1W, 10%		1							
44	062-260		R3,11,26,38,52,62	RESISTOR, Fixed, 5.11k ohm, 1/4W, 1%		6							
45	280-130	TO-18		SPACER, Transistor		14							
47	586-153	MC846P	A2,4,10,12,19	INTEGRATED CIRCUIT		5							
48	586-155	MC862P	A20	INTEGRATED CIRCUIT		1							
49	586-184	F9094	A1,5,9,11,15	INTEGRATED CIRCUIT		5							
50	586-121	uA711C	A8	INTEGRATED CIRCUIT		1							
52	586-309	uL9601	A6,13,17	INTEGRATED CIRCUIT		3							
53	586-440	F747C	A18	INTEGRATED CIRCUIT		1							
54	586-151	MC830P	A16	INTEGRATED CIRCUIT		1							
55	586-152	MC836P	A3,7,14,21	INTEGRATED CIRCUIT		4							
56	014-600		Q8	TRANSISTOR, PNP		1							
57	013-257		VR1	DIODE, Zener, 6.2V, 5%		1							
58	148-028		TP1,2	TEST JACK, White		2							
59	148-052		TP3	TEST JACK, Black		1							
60	041-013		R1,9,24,32,36,50,60	RESISTOR, Fixed, 4.7k ohm, 1/2W, 5%		7							

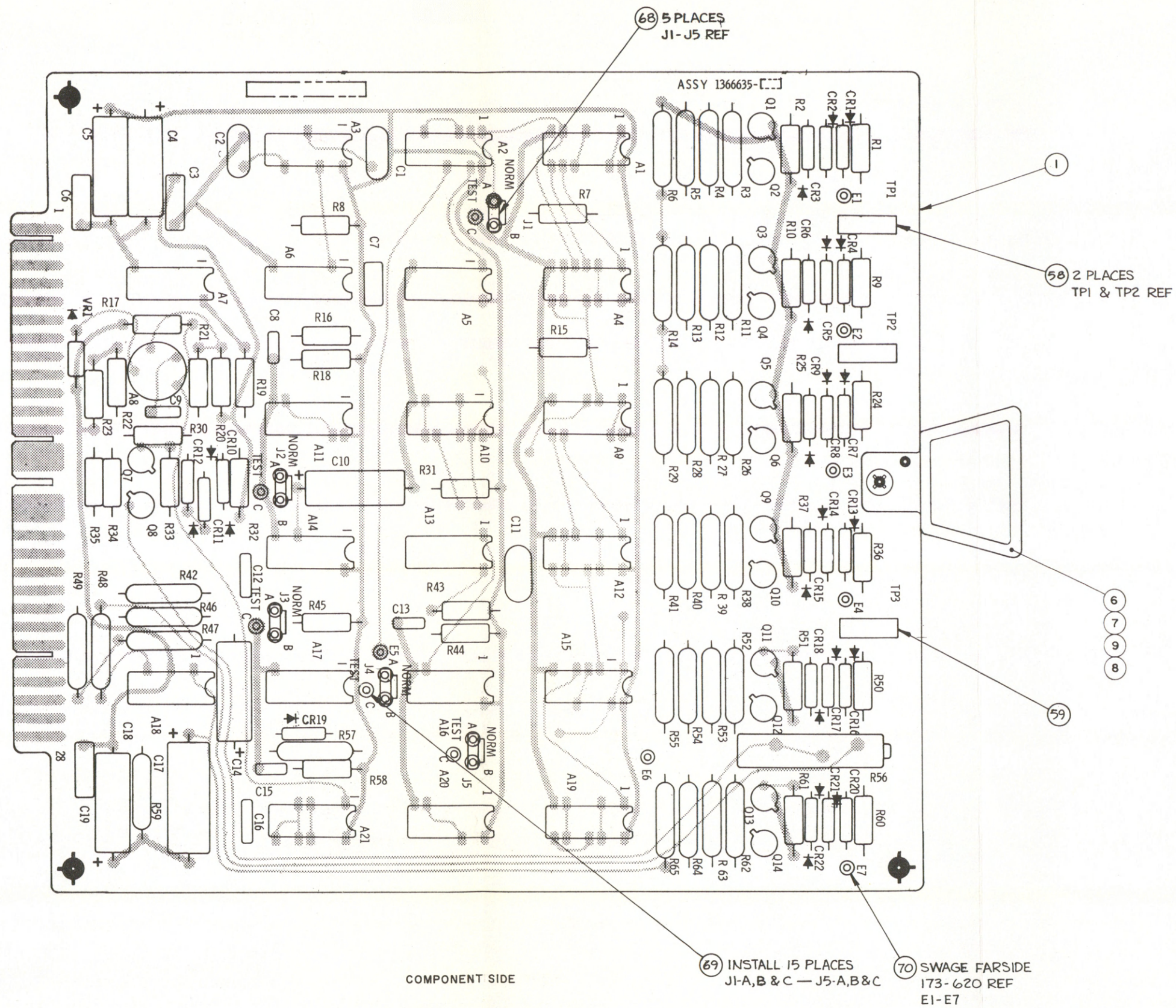
X1366635C

HEAD WHEEL AUTO PHASING PRINTED WIRING ASSEMBLY (MODULE 146)					CATALOG NO. 1366635		SHEET 2 OF 2						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
61	057-799	TO-5	R57	RESISTOR, Fixed, 13.3k ohm, 1/4W, 1%		1							
62	057-830		R5, 13, 28, 40, 54, 64	RESISTOR, Fixed, 3.24k ohm, 1/4W, 1%		6							
63	062-268		R65	RESISTOR, Fixed, 1.62k ohm, 1/4W, 1%		1							
64	062-257		R49	RESISTOR, Fixed, 1.33k ohm, 1/4W, 1%		1							
65	048-619		R48, 59	RESISTOR, Fixed, 2.49k ohm, 1/4W, 1%		2							
66	048-257		R42, 47	RESISTOR, Fixed, 3.01k ohm, 1/4W, 1%		2							
67	057-422		R46	RESISTOR, Fixed, 10.5k ohm, 1/4W, 1%		1							
68	602-012		J1, 2, 3, 4, 5	CONNECTOR PLUG, Shorting, insulated, red		5							
69	143-981		Ref: J1A, B, & C to J5A, B, & C	JACK, Closed Entry		15							
70	173-620		Ref: E1-7	TERMINAL STUD, Turret, swage		7							
71	280-174		Ref: A8	MOUNTING PAD, 10 pin		1							

X1366635C

10-506





Head Wheel Auto Phasing Printed Wiring Assembly  
(Module 146) Dwg. No. 1366635



REEL DRIVE SERVO PRINTED WIRING ASSEMBLY (MODULE 147)						CATALOG NO. 1364311		SHEET 1 OF 2			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364313			SCHEMATIC		REF					
4	1363791-01			HANDLE, Printed Wiring Board		1					
5	103307-01		R59-62	STANDOFF, .25		8					
7	013-689		CR1-11	DIODE		11					
8	013-983		VR1,2	DIODE, Zener		2					
9	013-678		CR12-15	DIODE		4					
10	013-354		VR3	DIODE, Zener		1					
11	014-247		Q9-12	TRANSISTOR		4					
12	014-248		Q7,13,15	TRANSISTOR		-					
13	014-387		Q14	TRANSISTOR.		1					
14	014-600		Q1-6,8,16,17	TRANSISTOR		9					
15	014-364		Q18	TRANSISTOR		1					
16	014-248		Q7,13,15,19	TRANSISTOR		4					
17	030-094		C3,5,42,44	CAPACITOR, Monolithic, .1μF, 25V, 20%		4					
19	030-966		C11,12,18,19,21,22,24,25,30,32,33,37-40	CAPACITOR, Ceramic, .01μF, 100V,10%		15					
22	035-734		C6-9,34-36	CAPACITOR, Mylar, .01μF, 50V, 5%		7					
23	035-893		C17,23	CAPACITOR, Mylar, .1μF, 50V, 5%		2					
26	037-186		C1,4,20,43	CAPACITOR, Tantalum, 120μF, 10V, 10%		4					
27	037-620		C2,13,15,41	CAPACITOR, Tantalum, 100μF, 20V, 10%		4					
28	037-726		C14,16	CAPACITOR, Tantalum, 3.3μF, 15V, 10%		2					
29	037-740		C10	CAPACITOR, Tantalum, 33μF, 10V, 10%		1					
30	037-746		C26	CAPACITOR, Tantalum, 47μF, 20V, 10%		1					
34	041-001		R16,29,45	RESISTOR, Fixed, 5.1K ohm, 1/2W, 5%		3					
35	041-003		R39	RESISTOR, Fixed, 100 ohm, 1/2W, 5%		1					
38	041-010		R57	RESISTOR, Fixed, 2K ohm, 1/2W, 5%		1					
39	041-013		R85,86	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		2					
40	041-014		R3,4,6-10,13,14,52,54,73,76,79,91,95,96	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		17					
42	041-017		R47,63,71,84	RESISTOR, Fixed, 33K ohm, 1/2W, 5%		4					
44	041-020		R90	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		1					
45	041-239		R83	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		1					
47	041-278		R34	RESISTOR, Fixed, 2.7K ohm, 1/2W, 5%		1					
48	041-303		R92	RESISTOR, Fixed, 3.9K ohm, 1/2W, 5%		1					
49	041-245		R2,5,11,12,17-24,53,55,98,99	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		16					
50	041-322		R89	RESISTOR, Fixed, 18K ohm, 1/2W, 5%		1					
52	041-331		R41-44	RESISTOR, Fixed, 3.3K ohm, 1/2W, 5%		4					
53	041-373		R33	RESISTOR, Fixed, 9.1K ohm, 1/2W, 5%		1					
55	041-420		R77,78,87,88,94	RESISTOR, Fixed, 12K ohm, 1/2W, 5%		5					
56	041-454		R80,82,93	RESISTOR, Fixed, 39 ohm, 1/2W, 5%		3					
57	041-455		R1,15	RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		2					
58	041-330		R25,56,97	RESISTOR, Fixed, 6.8K ohm, 1/2W, 5%		3					
60	041-375		R59-62	RESISTOR, Fixed, 180 ohm, 2W, 5%		4					
61	057-258		R81	RESISTOR, Metal Film, 28.7K ohm, 1/4W, 1%		1					
62	041-900		R72	RESISTOR, Fixed, 620K ohm, 1/2W, 5%		1					

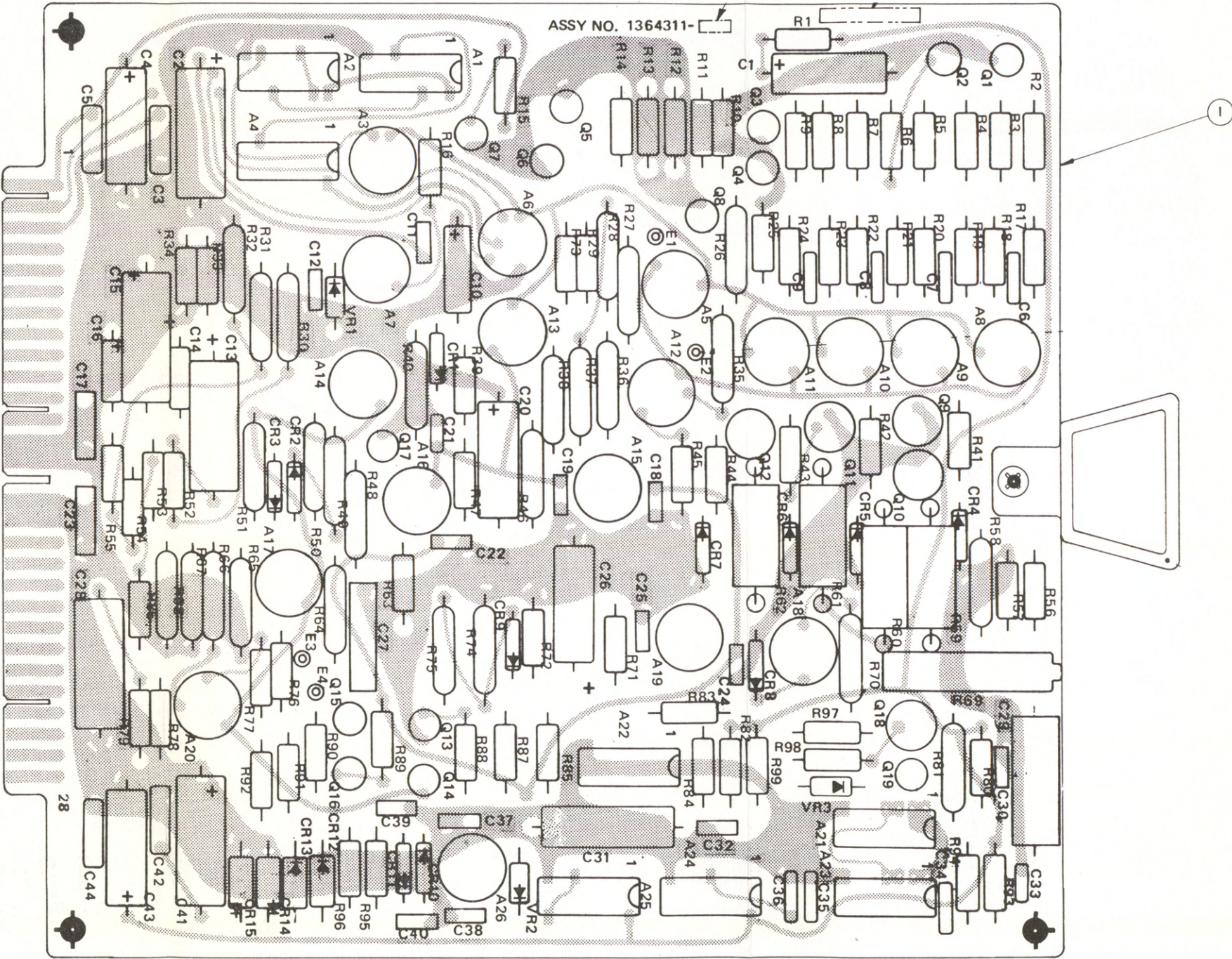
X1364311E

REEL DRIVE SERVO PRINTED WIRING ASSEMBLY (MODULE 147)					CATALOG NO.	1364311	SHEET 2 OF 2				
										NHA	1366025
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
65	042-478		R67,68	RESISTOR, Metal Film, 200 ohm, 1/4W, 1%		2					
66	042-479		R28	RESISTOR, Metal Film, 8.06K ohm, 1/4W, 1%		1					
67	042-482		R64,65	RESISTOR, Metal Film, 47.5K ohm, 1/4W, 1%		2					
68	042-483		R27,48,50	RESISTOR, Metal Film, 15K ohm, 1/4W, 1%		3					
69	042-485		R58	RESISTOR, Metal Film, 3.32K ohm, 1/4W, 1%		1					
70	048-257		R74	RESISTOR, Metal Film, 3.01K ohm, 1/4W, 1%		1					
71	044-873		R69	POTENTIOMETER, 1K ohm, 1W, 10%		1					
74	048-259		R49	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		1					
75	048-614		R51,66	RESISTOR, Metal Film, 562 ohm, 1/4W, 1%		2					
78	055-493		C27	CAPACITOR, Mylar, .27μF, 50V, 10%		1					
79	055-609		C28,31	CAPACITOR, Metalized Polycarbonate, 2μF, 50V, 10%		2					
80	055-807		C29	CAPACITOR, Metalized Polycarbonate, 1μF, 100V, 1%		1					
83	057-042		R26,30,31,35 36,38,46,75	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		8					
85	057-386		R32,40	RESISTOR, Metal Film, 30.1K ohm, 1/4W, 1%		2					
86	057-792		R37	RESISTOR, Metal Film, 1.96K ohm, 1/4W, 1%		1					
89	057-920		R70	RESISTOR, Metal Film, 11K ohm, 1/4W, 1%		1					
96	173-620		E1-4	TERMINAL STUD, Turret 8		4					
98	280-130		Q1-8,13-16,19	MOUNTING PAD, Transistor		13					
99	280-173		A5,8-20,26	MOUNTING PAD, Integrated Circuit, 8 pin		15					
100	280-174		A3,6,7	MOUNTING PAD, Integrated Circuit, 10 pin		3					
101	280-998		Q9-12	MOUNTING PAD, Transistor		5					
104	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
106	496-004			NUT, Assembled Washer, 4-40		1					
108	501-008			WASHER, Flat, #4		1					
111	586-097	μL9932	A4	INTEGRATED CIRCUIT		1					
112	586-121	μA711	A7	INTEGRATED CIRCUIT		1					
113	586-152	MC836P	A1,24	INTEGRATED CIRCUIT		2					
114	586-153	MC846P	A25	INTEGRATED CIRCUIT		1					
115	586-155	MC952P	A2	INTEGRATED CIRCUIT		1					
116	586-261	LM302H	A15,16,19	INTEGRATED CIRCUIT		3					
117	586-269	μA741C	A5,8-14,17,18,20	INTEGRATED CIRCUIT		11					
118	586-309	μL9601	A21-23	INTEGRATED CIRCUIT		3					
119	586-335	LM306H	A26	INTEGRATED CIRCUIT		1					
120	586-336	DM8800	A3,6	INTEGRATED CIRCUIT		2					

X1364311E



AMPEX



Reel Drive Servo Printed Wiring Assembly (Module 147)  
Dwg. No. 1364311



GUIDE SERVO PRINTED WIRING ASSEMBLY (MODULE 148)					CATALOG NO. 1364314		SHEET 1 OF 2				
							NHA 1366025				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364316			SCHEMATIC		REF					
4	013-689		CR1,2	DIODES		2					
5	014-247		Q5	TRANSISTOR		1					
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		9					
9	501-008			WASHER, Plain, #4		17					
10	014-364		Q3,6	TRANSISTOR		2					
11	014-597		Q4	TRANSISTOR		1					
12	014-600		Q2,7,8	TRANSISTOR		3					
13	014-720	2N3740	Q9	TRANSISTOR		1					
14	014-947	2N3766	Q1	TRANSISTOR		1					
15	030-094		C1,3,13,16,18	CAPACITOR, Monolithic, 1.0μF, 25V, 20%		5					
16	030-966		C7,8	CAPACITOR, Ceramic, .01μF, 100V		2					
18	035-828		C6	CAPACITOR, Mylar, .022μF, ±5%		1					
19	037-152		C4,14	CAPACITOR, Tantalum, 82μF, 50V, 20%		2					
20	037-620		C2,19	CAPACITOR, Tantalum, 100μF, 20V,10%		2					
21	037-186		C17	CAPACITOR, Tantalum, 120μF, 10V,10%		1					
22	041-013		R18,26	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		2					
23	041-006		R27	RESISTOR, Fixed, 620 ohm, 1/2W,5%		1					
24	041-003		R16	RESISTOR, Fixed, 100 ohm, 1/2W, 5%		1					
25	041-014		R4,5,15,22,24,34,36	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		7					
26	041-017		R19-21	RESISTOR, Fixed, 33K ohm, 1/2W, 5%		3					
27	041-023		R2,3	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		2					
28	041-245		R23,25	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		2					
29	041-246		R14,17	RESISTOR, Fixed, 82K ohm, 1/2W, 5%		2					
30	041-330		R7	RESISTOR, Fixed, 6.8K ohm, 1/2W, 5%		1					
31	041-331		R8	RESISTOR, Fixed, 3.3K ohm, 1/2W, 5%		1					
32	041-371		R9	RESISTOR, Fixed, 240 ohm, 2W, 5%		1					
33	048-259		R38	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		1					
34	041-420		R6,13,33,35	RESISTOR, Fixed, 12K ohm, 1/2W, 5%		4					
36	041-528		R10,31	RESISTOR, Fixed, 300 ohm, 1/2W, 5%		2					
38	041-602		R12	RESISTOR, Fixed, 2K ohm, 1W, 5%		1					
39	043-585		R1,37	RESISTOR, Fixed, 30 ohm, 10W, 5%		2					
40	055-156	G. E. 75F Series	C11,12	CAPACITOR, Mylar, .22μF, ±5%		2					
42	055-609		C10	CAPACITOR, Metalized Polycarbonate, 2μF, ±10%		1					
44	280-173	TO-5	A1-4	SPACER, Integrated Circuit, 8 pin		4					
45	280-174	TO-5	A7,9	SPACER, Integrated Circuit, 10 pin		2					
46	280-998	TO-5		TRANSISTOR, Spacer		3					
47	586-097	MC832	A5	INTEGRATED CIRCUIT, μF932		1					
48	586-151	MC830	A10	INTEGRATED CIRCUIT		1					
49	586-152	MC836	A6,9	INTEGRATED CIRCUIT		2					
50	586-261	LM302	A2	INTEGRATED CIRCUIT		1					
51	586-269	μA741C	A1,3,4	INTEGRATED CIRCUIT		3					

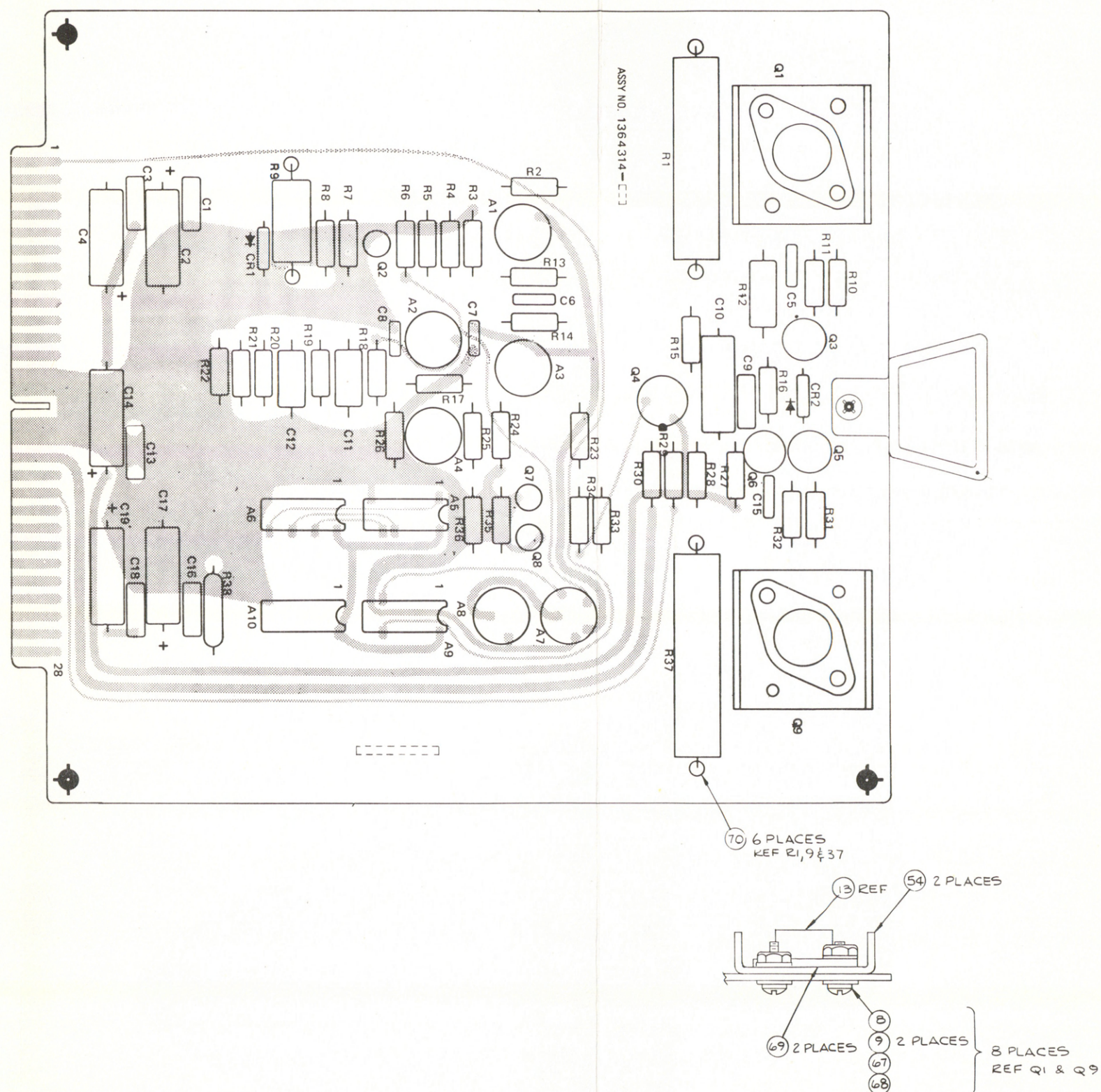
X1364314D

GUIDE SERVO PRINTED WIRING ASSEMBLY (MODULE 148)					CATALOG NO. 1364314	SHEET 2 OF 2					
						NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
52	586-336	DM8800	A7,8	INTEGRATED CIRCUIT		2					
53	014-712	TO-5	Q4	TRANSISTOR, Spacer, dual		1					
54	1366569-01		Q1,9	TRANSISTOR, Heatsink Bracket		2					
55	049-377		R32	RESISTOR, Fixed, 7.5 ohm, 1/2W, 5%		1					
56	041-513		R11	RESISTOR, Fixed, 15 ohm, 1/2W, 5%		1					
57	041-358		R29	RESISTOR, Fixed, 62K ohm, 1/2W, 5%		1					
58	041-529		R30	RESISTOR, Fixed, 20K ohm, 1/2W, 5%		1					
59	041-373		R28	RESISTOR, Fixed, 9.1K ohm, 1/2W, 5%		1					
62	035-883		C9	CAPACITOR, Mylar, .068μF, ±5%		1					
63	055-168		C5	CAPACITOR, Mylar, .0056μF, ±5%		1					
64	035-817		C15	CAPACITOR, Mylar, .015μF, ±5%		1					
67	471-062			SCREW, Cross-Recessed, pan head, 4-40 x .375		8					
70	103307-01		R1,9,37	SPACER, 1/4 long		6					

X1364314D

10-514



**AMPEX**

Guide Servo Printed Wiring Assembly (Module 148)  
Dwg. No. 1364314



**SYSTEM CONTROL LOGIC**

**MODULES 149-152**

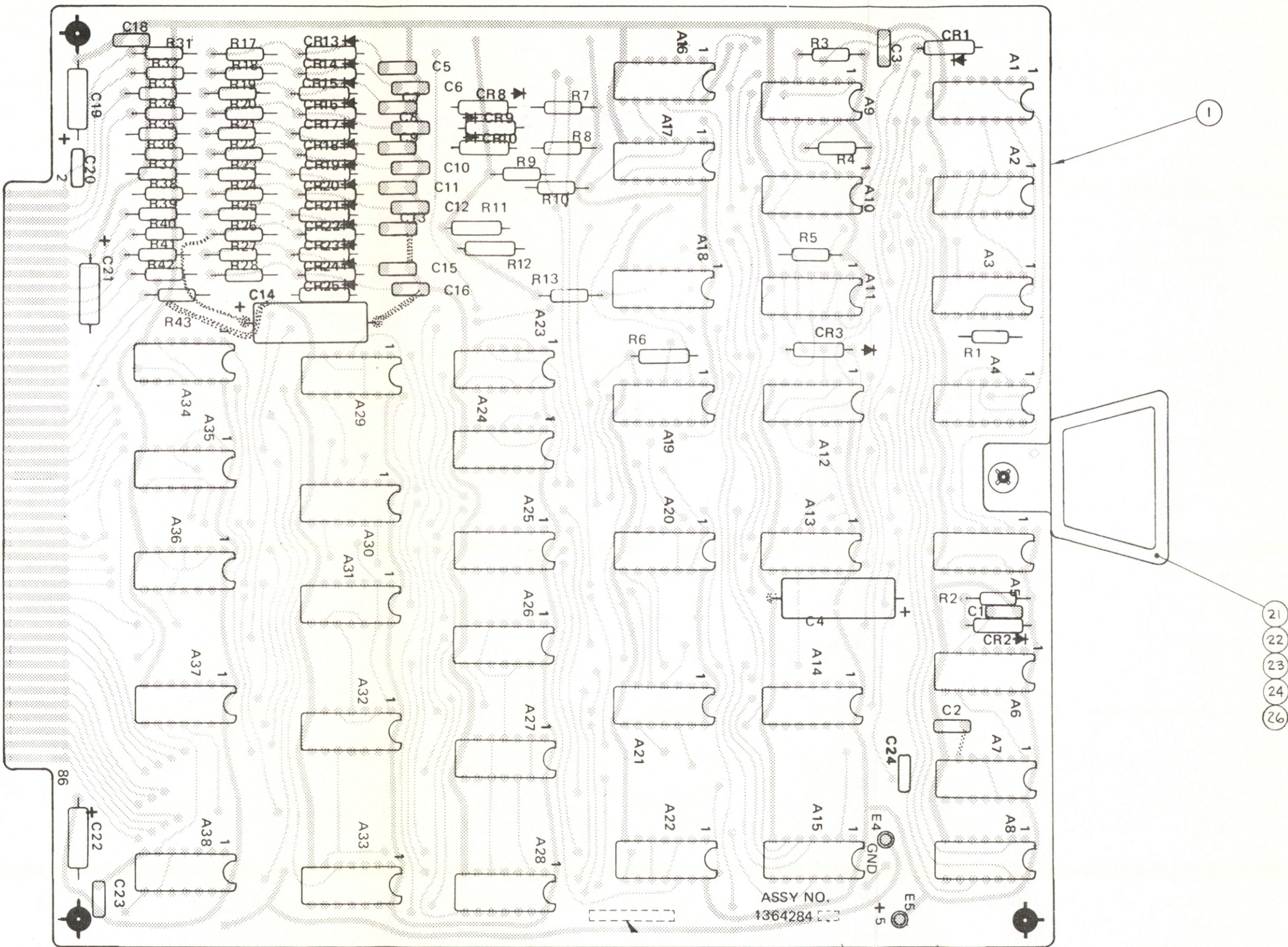
SYSTEM CONTROL LOGIC PRINTED WIRING ASSEMBLY (MODULE 149)					CATALOG NO. 1364284	SHEET 1 OF 1					
						NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
2	1364286			SCHEMATIC		REF					
4	013-689		CR1-3,8-10, 13-25	DIODE		19					
7	037-985		C19,21,22	CAPACITOR, Tantalum, 15 $\mu$ F, 20V,10%		3					
8	041-408		R2,7,8	RESISTOR, Composition, 10K ohm, 1/4W, 5%		3					
9	041-561		R1,3-5,31-43	RESISTOR, Composition, 5.1K ohm, 1/4W, 5%		17					
10	041-414		R9,10,12	RESISTOR, Composition, 2.2K ohm, 1/4W, 5%		3					
11	041-520		R17-28	RESISTOR, Composition, 7.5K ohm, 1/4W, 5%		12					
12	143-981		E4,5	JACK, Closed Entry		2					
13	586-097	MC832P	A11,27,31,32	INTEGRATED CIRCUIT		4					
14	586-152	MC836P	A3,7,9,13,24, 25,30,36	INTEGRATED CIRCUIT		8					
15	586-153	MC846P	A1,8,12,16,21, 23,26,29	INTEGRATED CIRCUIT		8					
16	586-155	MC862P	A2,4,5,6, 10, 20,22	INTEGRATED CIRCUIT		7					
17	586-311	F9109	A17-19	INTEGRATED CIRCUIT		3					
18	586-415	MC857P	A15,28,33-35, 37,38	INTEGRATED CIRCUIT		7					
19	586-425	MC853P	A14	INTEGRATED CIRCUIT		1					
20	037-749		C14	CAPACITOR, Tantalum, 68 $\mu$ F, 15V, 10%		1					
21	1363791-01			HANDLE, Printed Wiring Board		1					
22	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
23	496-004			NUT, Assembled Washer, 4-40		1					
24	501-008			WASHER, Plain, #4		1					
25	041-410		R6,11,13	RESISTOR, Composition, 1K ohm, 1/4W, 5%		3					
26	1368188-42			LABEL		1					
27	030-963		C1-3,5-13,15, 16,18,20,23,24	CAPACITOR, Ceramic, .1 $\mu$ F, 100V,10%		18					
28	037-186		C4	CAPACITOR, Tantalum, 120 $\mu$ F, 10V,10%		1					

X1364284C

10-517/518



AMPEX



System Control Logic Printed Wiring Assembly  
(Module 149) Dwg. No. 1364284

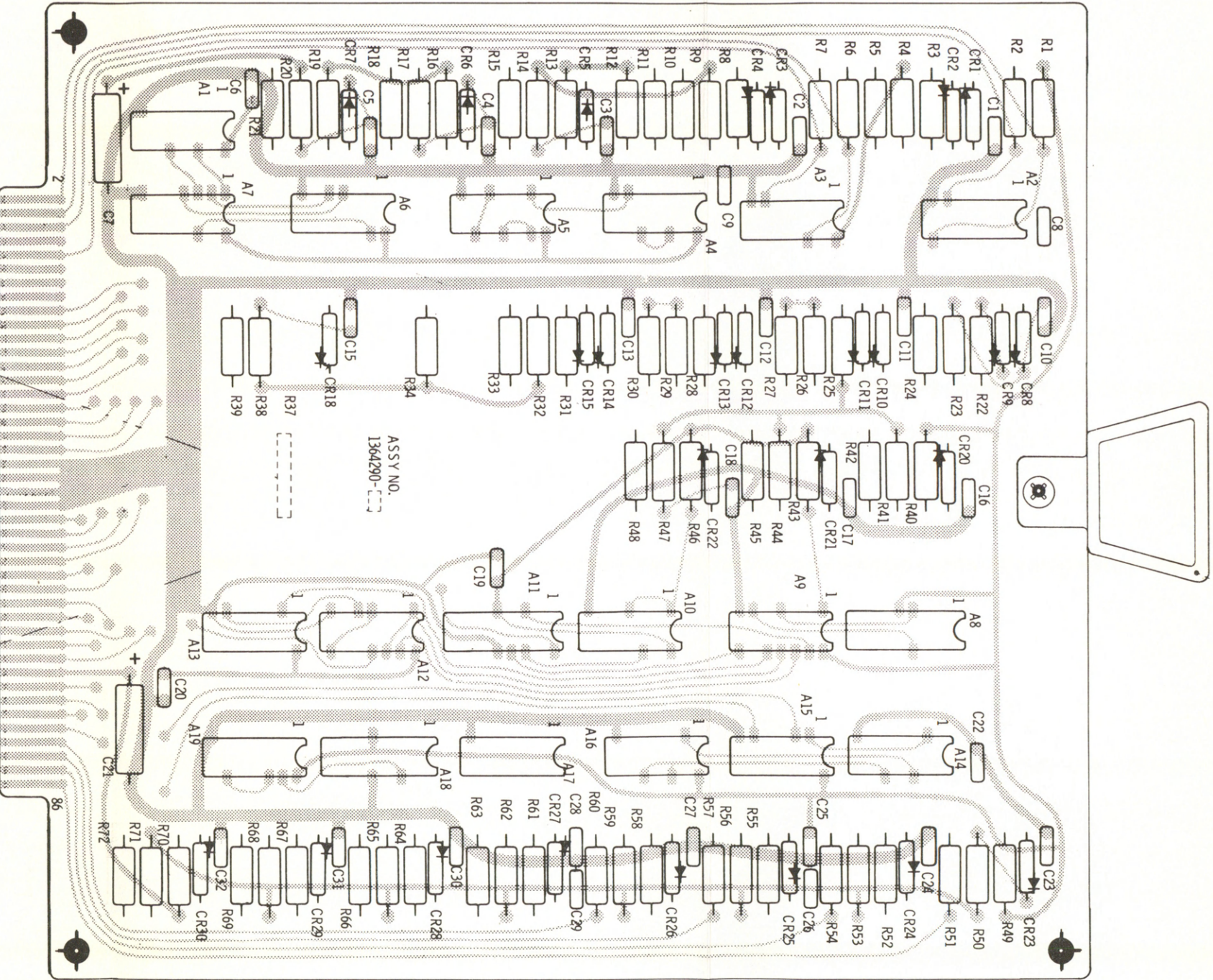


STANDARDS CONTROL LOGIC PRINTED WIRING ASSEMBLY (MODULE 150)						CATALOG NO. 1364290		SHEET 1 OF 1			
								NHA 1366025			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364292			SCHEMATIC		REF					
6	1363791-01			HANDLE, Printed Wiring Board		1					
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1					
8	496-004			NUT, Assembled Washer, 4-40		1					
9	501-008			WASHER, Plain, #4		1					
11	013-689		CR1-15, 18, 20-30	DIODE		27					
13	030-963		C1-6, 8-13, 15-20, 22-31	CAPACITOR, .1μF, 100V, 10%		28					
14	037-985		C7, 21	CAPACITOR, 15μF, 20V, 10%		2					
16	041-014		R3, 8, 22, 25, 28, 31, 34	RESISTOR, 10K ohm, 1/2W, 5%		7					
17	041-361		R4, 9, 14, 17, 20, 23, 26, 29, 32, 38, 41, 44, 47, 50, 53, 56, 59, 62, 65, 68, 71	RESISTOR, 7.5K ohm, 1/2W, 5%		21					
19	041-001		R5, 10, 13, 15, 16, 18, 19, 21, 24, 27, 30, 33, 39, 40, 42, 43, 45, 46, 48, 49, 51, 52, 54, 55, 57, 58, 60, 61, 63, 64, 66, 67, 69, 70, 72	RESISTOR, 5.1K ohm, 1/2W, 5%		35					
21	041-245		R1, 2, 6, 7, 11, 12	RESISTOR, 1K ohm, 1/2W, 5%		6					
23	586-151	MC830P Motorola	A13	INTEGRATED CIRCUIT		1					
24	586-152	MC836P Motorola	A7, 9	INTEGRATED CIRCUIT		2					
25	586-153	MC846P Motorola	A4, 6, 10, 12, 15, 16, 19	INTEGRATED CIRCUIT		7					
26	586-155	MC862P Motorola	A5	INTEGRATED CIRCUIT		1					
27	586-311	Fairchild, 910959X	A1-3, 14, 17	INTEGRATED CIRCUIT		5					
28	586-445	SN7475N	A8, 11, 18	INTEGRATED CIRCUIT		3					

X1364290A



AMPEX



Standards Control Logic Printed Wiring Assembly  
(Module 150) Dwg. No. 1364290

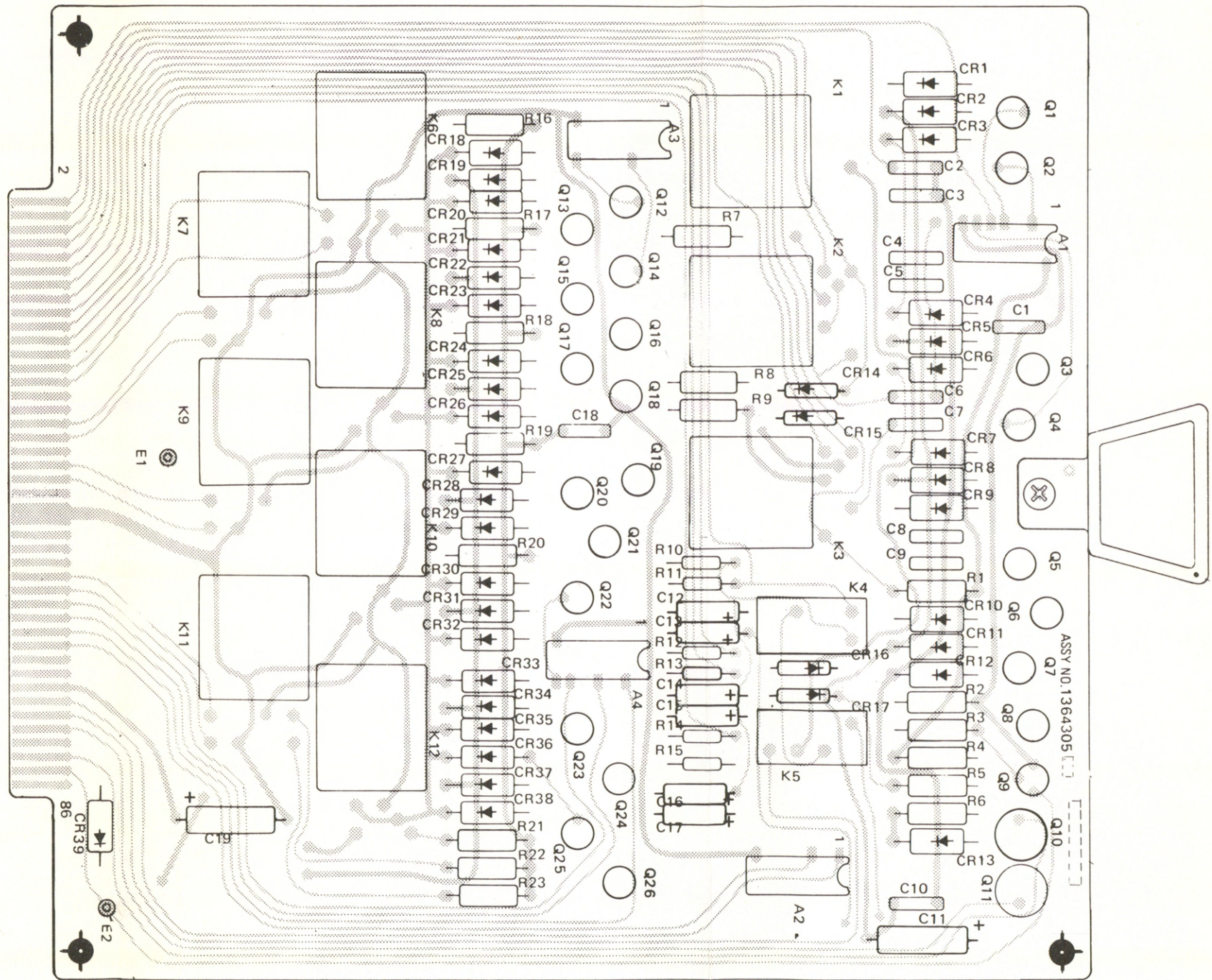
MEMORY RELAYS PRINTED WIRING ASSEMBLY (MODULE 151)					CATALOG NO. 1364305		SHEET 1 OF 1						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364307			SCHEMATIC		REF							
6	1363791-01			HANDLE, Printed Wiring Board		1							
7	471-061			SCREW, Cross-Recessed, pan head, 4-40 x .312		1							
8	496-004		K1-3,6-12	NUT, Assembled Washer, 4-40		11							
9	501-008			WASHER, Plain, #4		1							
12	013-678		CR1-13,18-39	DIODE		35							
13	013-689		CR14-17	DIODE		4							
14	014-247		Q10,11	TRANSISTOR		2							
15	014-248		Q1-9,12-26	TRANSISTOR		24							
16	020-407		K4,5	PAD, Relay		2							
17	020-501		K4,5	RELAY, DPDT, 1250 ohm		2							
18	020-636		K1-3,6-12	RELAY, DPDT		10							
19	035-734		C1-10,18	CAPACITOR, .01μF, 50V, 5%		11							
20	037-985		C19	CAPACITOR, 15μF, 20V, 10%		11							
21	037-219		C 11	CAPACITOR, 6.8μF, 35V, 10%		1							
22	037-164		C12-17	CAPACITOR, 1μF, 35V, 10%		6							
23	041-016		R3,8	RESISTOR, 22K ohm, 1/2W, 5%		2							
24	041-239		R2,5,6,9	RESISTOR, 2.2K ohm, 1/2W, 5%		4							
25	041-245		R1,4,7,16-23	RESISTOR, 1.0K ohm, 1/2W, 5%		11							
26	041-653		R10-15	RESISTOR, 390 ohm, 1/4W, 5%		6							
27	173-012		E1,2	TERMINAL		2							
28	280-130		Q1-9,12-26	PAD, Transistor		24							
29	280-998		Q10,11	PAD, Transistor		2							
30	501-169			WASHER, Flat, #4		20							
31	586-308	MC837P	A1-4	INTEGRATED CIRCUIT		4							

X1364305A

10-52 5/526



AMPEX



Memory Relays Printed Wiring Assembly (Module 151)  
Dwg. No. 1364305

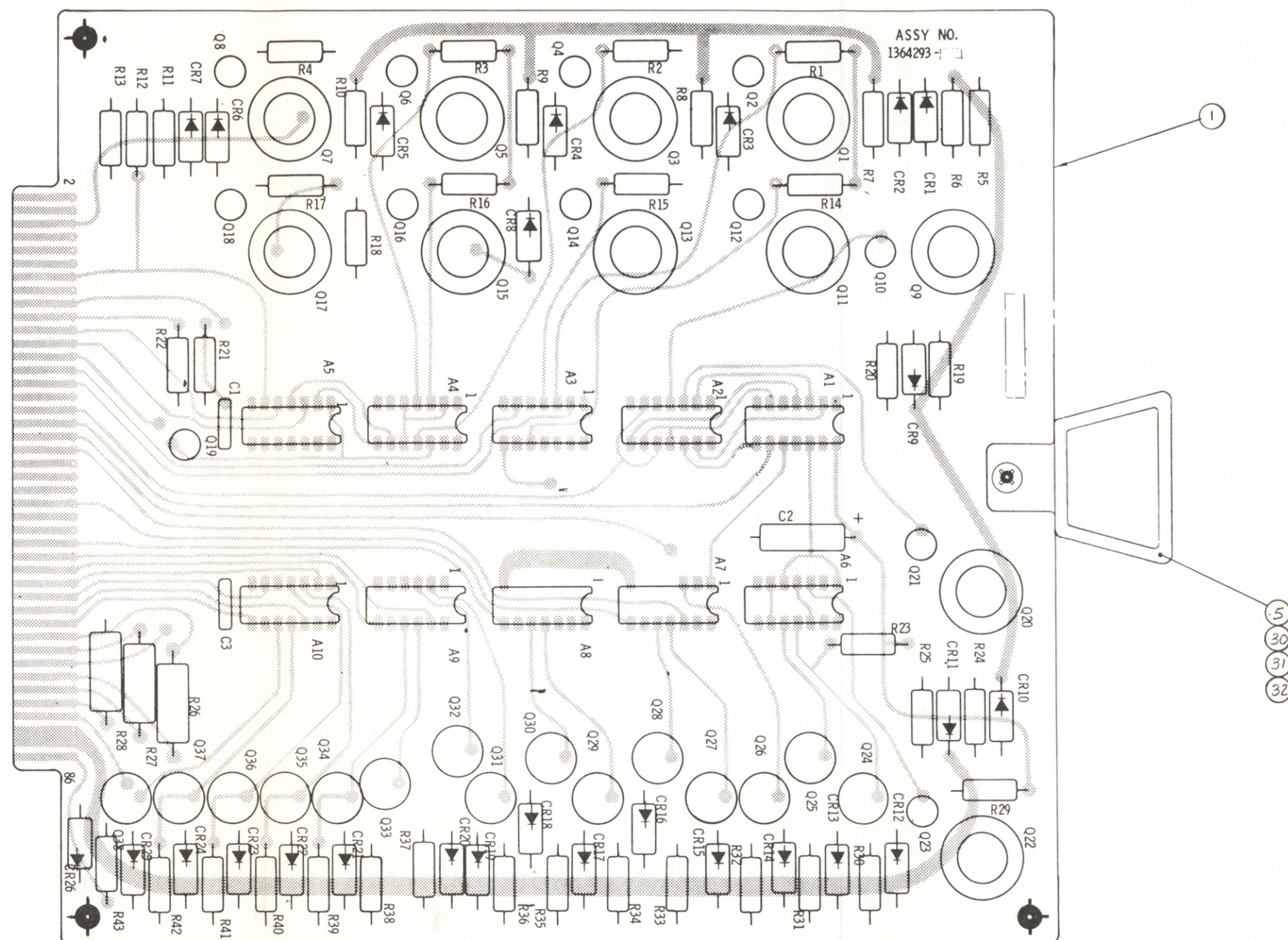


RELAY AND LAMP DRIVER PRINTED WIRING ASSEMBLY (MODULE 152)					CATALOG NO. X1364293	SHEET 1 OF 1 NHA 1366025					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364295			SCHEMATIC		REF					
7	013-678		CR1-26	DIODE		26					
9	014-247		Q24-38	TRANSISTOR		15					
10	014-248		Q2, 4, 6, 10, 12, 14, 16, 18, 19, 21, 23	TRANSISTOR		11					
11	014-362		Q1, 3, 5, 7, 9, 11, 13, 15, 17, 20, 22	HEATSINK, Transistor		11					
12	014-387		Q8	TRANSISTOR		1					
14	035-734		C1, 3	CAPACITOR, Mylar, .01μF, 50V, 5%		2					
15	037-985		C2	CAPACITOR, Tantalum, 15μF, 20V, 10%		1					
17	041-013		R13	RESISTOR, Comp., 4.7K ohm, 1/2W, 5%		1					
18	041-014		R17	RESISTOR, Comp., 10K ohm, 1/2W, 5%		1					
19	041-239		R6-10, 12, 18, 20, 24, 25	RESISTOR, Comp., 2.2K ohm, 1/2W, 5%		10					
20	041-245		R4, 11	RESISTOR, Comp., 1.0K ohm, 1/2W, 5%		2					
21	041-316		R21	RESISTOR, Comp., 2.4K ohm, 1/2W, 5%		1					
22	041-140		R26-28	RESISTOR, Comp., 390 ohm, 1W, 10%		3					
23	041-404		R1, 2, 3, 5, 14, 15, 16, 19, 23, 29-43	RESISTOR, Comp., 510 ohm, 1/2W, 5%		24					
24	041-498		R22	RESISTOR, Comp., 24K ohm, 1/2W, 5%		1					
25	087-388			SILICON COMPOUND		A/R					
26	280-130		Q2, 4, 6, 10, 12, 14, 16, 19, 21, 23, 8, 18	PAD, Transistor		12					
27	280-998		Q1, 3, 5, 7, 9, 11, 13, 15, 17, 20, 22, 24-38	PAD, Transistor		26					
30	471-061			SCREW, Pan Head, 4-40 x 5/16		1					
31	496-004			NUT, Keps, 4-40		1					
32	501-008			WASHER, Flat, #4		1					
33	586-442	MC858P	A2-4, 6-10	INTEGRATED CIRCUIT		8					
34	580-167	2N5320	Q1, 3, 5, 7, 9, 11, 13, 15, 17, 20, 22	TRANSISTOR		11					
35	586-152	MC836P	A1, 5	INTEGRATED CIRCUIT		2					

X1364293D



AMPEX



COMPONENT SIDE

Relay and Lamp Driver Printed Wiring Assembly  
(Module 152)  
Drawing No. 1364293D

UPDATED FEB. 1971

10-529A/530A



**ELECTRONICS ASSEMBLY NO.2**  
**AND P.S. REG NO.2**



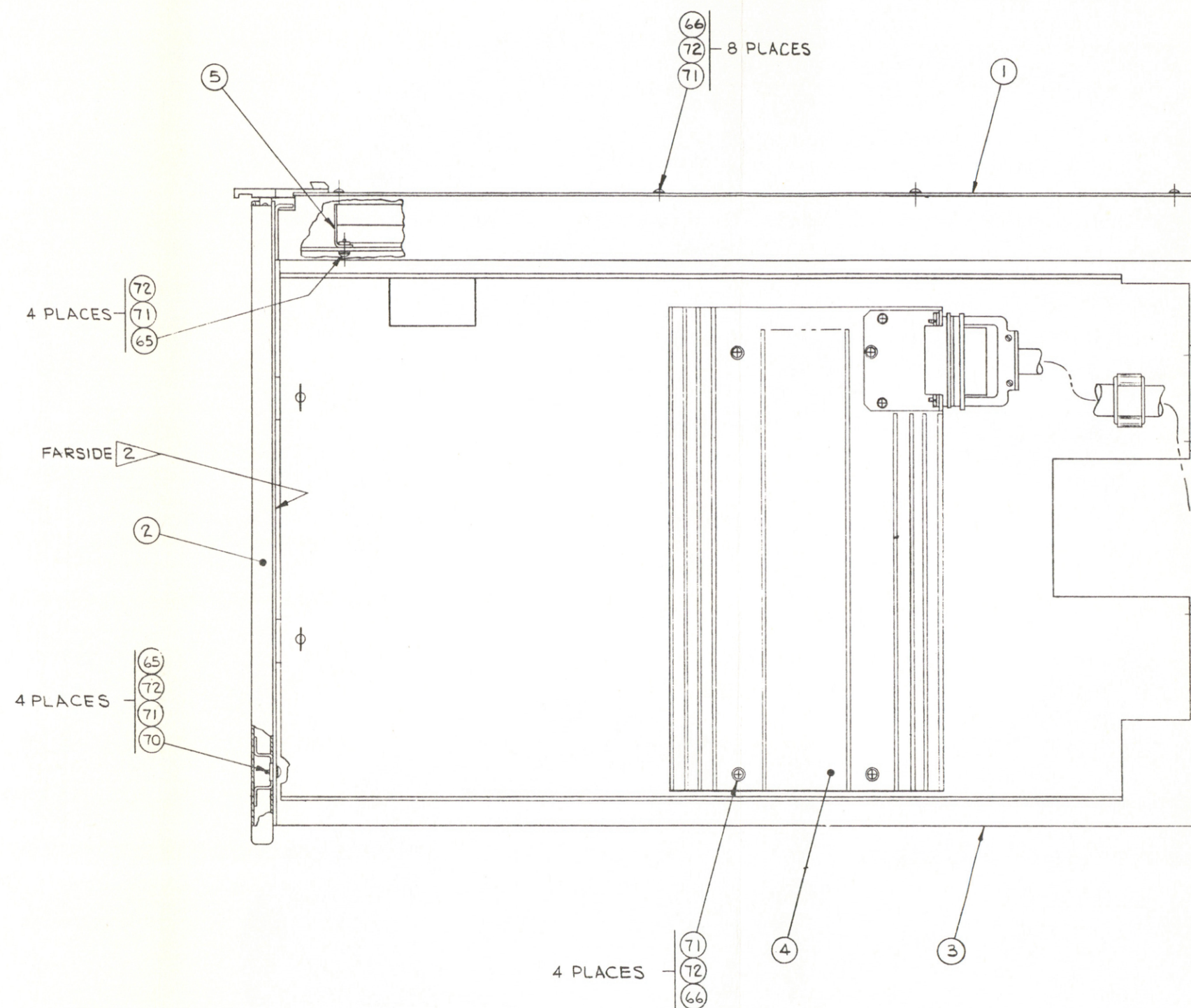
ELECTRONICS ASSEMBLY NO. 2				CATALOG NO. 1366053		SHEET 1 OF 2						
						NHA 1365988						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
1	1366032-02			COVER, Frame		1						
2	1366041-02			PANEL, Trim, front		1						
3	1366055-01			CARD RACK ASSEMBLY		1						
4	1366071-01			HEATSINK, Regulator		1						
5	1367348-01			BUFFER TEST PANEL ASSEMBLY		1						
12	1364365-01		102/243	PRINTED WIRING ASSEMBLY, Video Gain Control		1						
13	1364636-01		226	PRINTED WIRING ASSEMBLY, 30MHz Modulator & Sync Gate		1						
			227									
			228									
16	1364645-01		230	PRINTED WIRING ASSEMBLY, Switcher/Limiter 1		1						
			237									
18	1364666-02		238	PRINTED WIRING ASSEMBLY, Tapped Delay 1		1						
19	1364669-01		239	PRINTED WIRING ASSEMBLY, Tapped Delay 2		1						
			241									
21	1364675-04		242	PRINTED WIRING ASSEMBLY, Vernier Delay		1						
22	1364684-03		219	PRINTED WIRING ASSEMBLY, Burst Crossing Selector		1						
23	1364690-03		220	PRINTED WIRING ASSEMBLY, Reference Crossing Selector		1						
24	1364693-02		218	PRINTED WIRING ASSEMBLY, Output Burst Stripper		1						
25	1364696-03		221	PRINTED WIRING ASSEMBLY, Error Detector		1						
26	1364705-01		205	PRINTED WIRING ASSEMBLY, Test Generator		1						
27	1364708-01		212	PRINTED WIRING ASSEMBLY, Adder & Register 5		1						
28	1364711-01		208	PRINTED WIRING ASSEMBLY, Time Quantizer		1						
29	1364714-01		209	PRINTED WIRING ASSEMBLY, Switch Control Timing		1						
30	1364717-01		210	PRINTED WIRING ASSEMBLY, Clock & Time Word Generator		1						
31	1364720-01		211	PRINTED WIRING ASSEMBLY, Digital Lead		1						
32	1364732-01		207	PRINTED WIRING ASSEMBLY, Analog Lead		1						
33	1364738-01		214	PRINTED WIRING ASSEMBLY, Tapped Delay Switch Control		1						
34	1364781-02		244	PRINTED WIRING ASSEMBLY, Video Output		1						
35	1365156-02		202	PRINTED WIRING ASSEMBLY, A Scope Signal Selector 2		1						
36	1365878-01		240	PRINTED WIRING ASSEMBLY, Tapped Delay 3		1						
37	1365881-01		206	PRINTED WIRING ASSEMBLY, Store Control		1						

X1366053F

ELECTRONICS ASSEMBLY NO. 2				CATALOG NO. X1366053		SHEET 2 OF 2					
						NHA 1365988					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
38	1366401-01		213	PRINTED WIRING ASSEMBLY, Fixed Delay Switch Control		1					
39	1366477-04		223	PRINTED WIRING ASSEMBLY, Power Supply Regulator No. 2		1					
40	1366629-02		216	PRINTED WIRING ASSEMBLY, Sync Feedback		1					
41	1366631-02		217	PRINTED WIRING ASSEMBLY, Horizontal Reference Processing		1					
42	1366768-01		236	PRINTED WIRING ASSEMBLY, Switcher/Limiter 3		1					
48	1366903-01		233	PRINTED WIRING ASSEMBLY, Switcher/Limiter 2		1					
49	1367670-01		201	PRINTED WIRING ASSEMBLY, Reference Pulse Sensor		1					
50	1368314-01			MODULE ASSEMBLY, Spare		1					
51	1369436-01			PRINTED WIRING ASSEMBLY, 2 $\mu$ sec Delay		1					
52	1369442-01			PRINTED WIRING ASSEMBLY, 16 $\mu$ sec Delay		1					
53	1369440-01			PRINTED WIRING ASSEMBLY, 32 $\mu$ sec Delay		1					
54	1369438-01			PRINTED WIRING ASSEMBLY, 8 $\mu$ sec Delay		1					
55	1369438-01			PRINTED WIRING ASSEMBLY, 4 $\mu$ sec Delay		1					
56	1369434-01			PRINTED WIRING ASSEMBLY, 1 $\mu$ sec Delay		1					
57	1369446-01			PRINTED WIRING ASSEMBLY, 63 $\mu$ sec Delay		1					
58	1364642-03			PRINTED WIRING ASSEMBLY, Doubler/Demodulator		1					
59	1364672-03			PRINTED WIRING ASSEMBLY, 15 MHz Demodulator		1					
65	471-069			SCREW, Cross-Recessed, pan head, 6-32 x .375		8					
66	471-071			SCREW, Cross-Recessed, pan head, 6-32 x .500		12					
70	497-156			NUT, Sheet Steel, U-type, 6-32		4					
71	501-009			WASHER, Flat, #6		20					
72	502-003			WASHER, Lock, helical spring, #6		20					

X1366053E



- **AMPEX**

NOTES:

1. PART NUMBER IS 1366053-02
2. MARK PART NUMBER WITH PREFIX "ASSY" PER BDI-1.
3. PRINTED WIRING ASSEMBLYS NOT SHOWN.

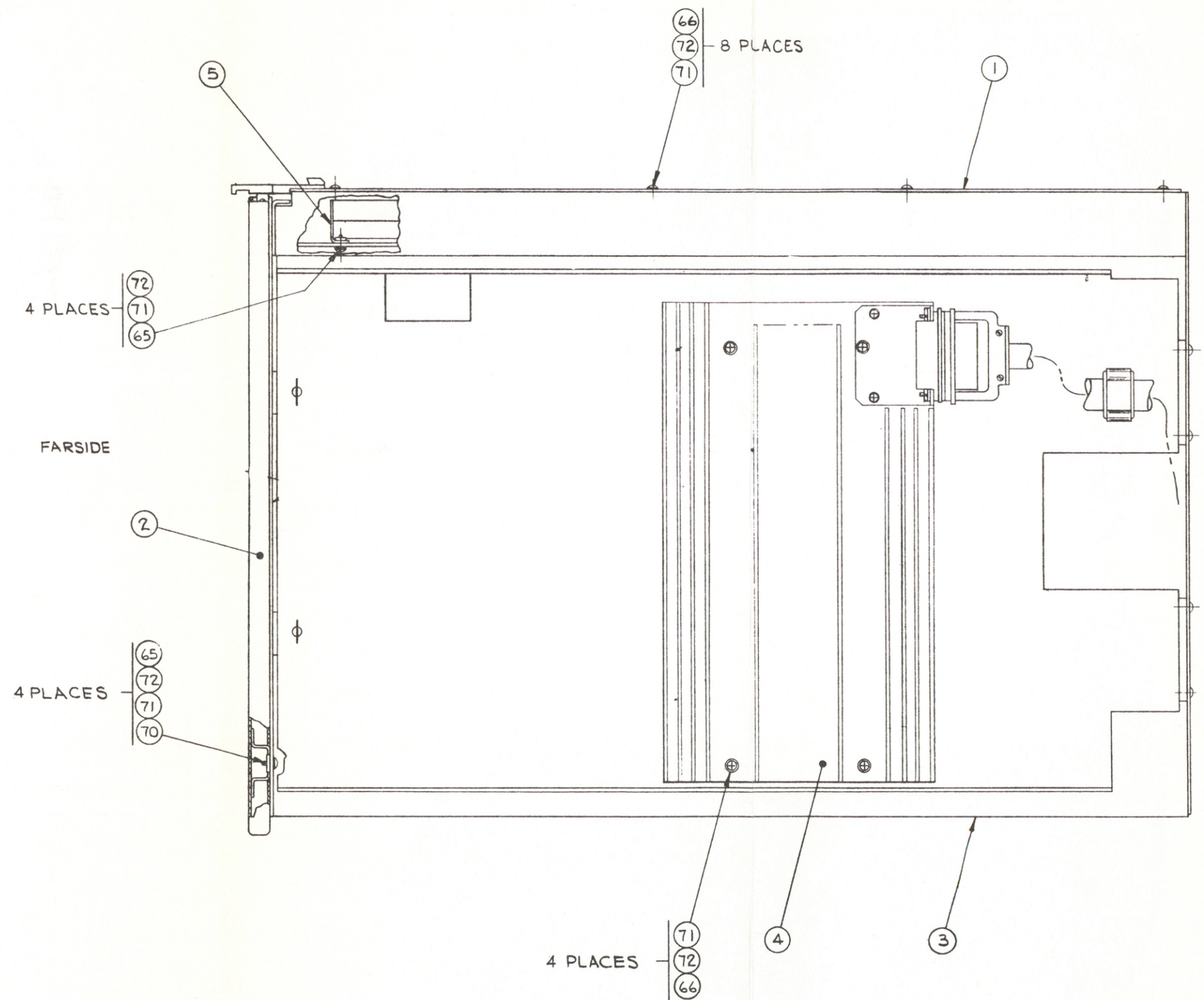
Electronics Assembly No. 2  
Drawing No. 1366053E

UPDATED FEB. 1971

10-531A/532A



AMPEX



Electronics Assembly No. 2  
Dwg. No. 1366053

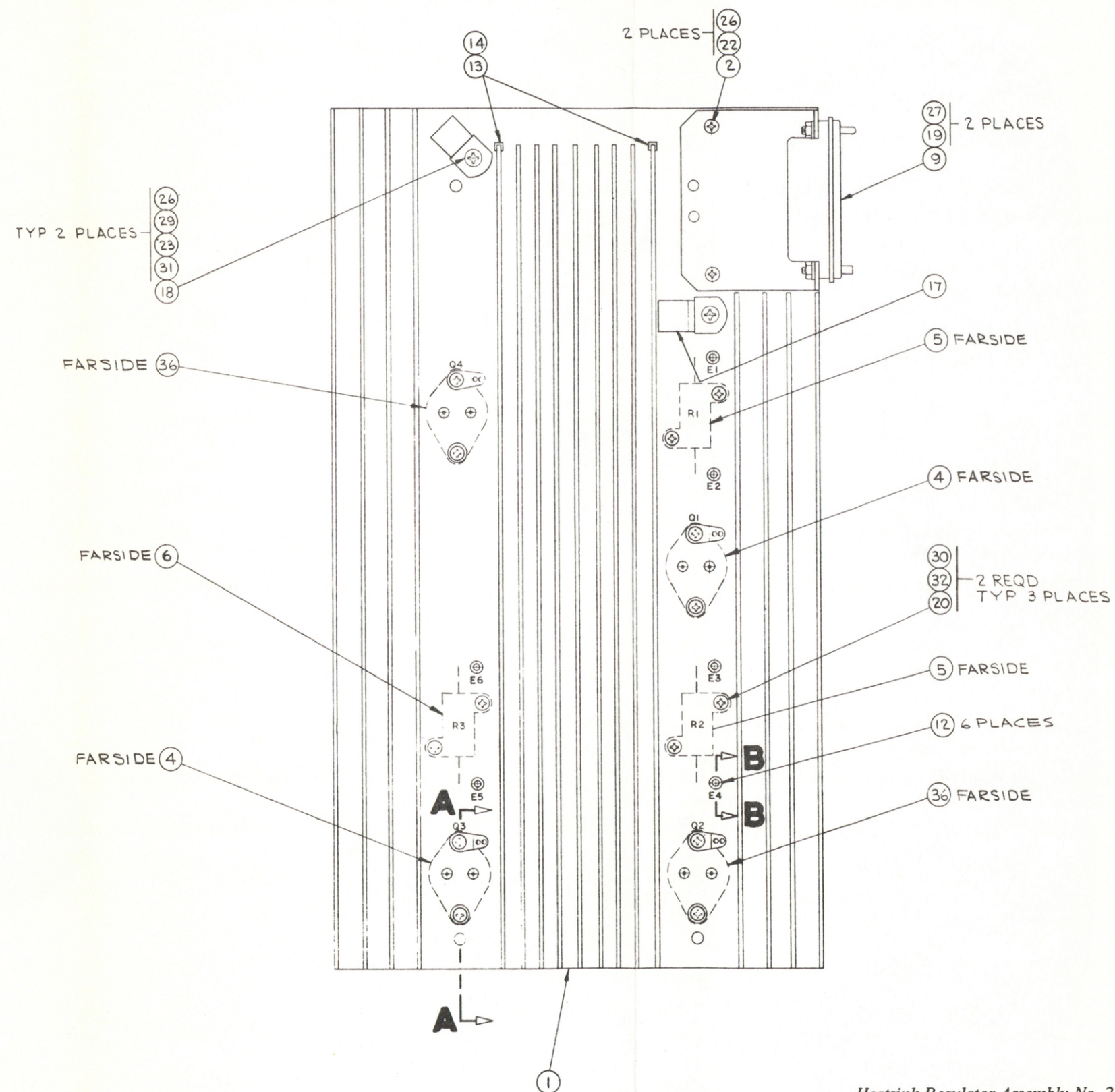
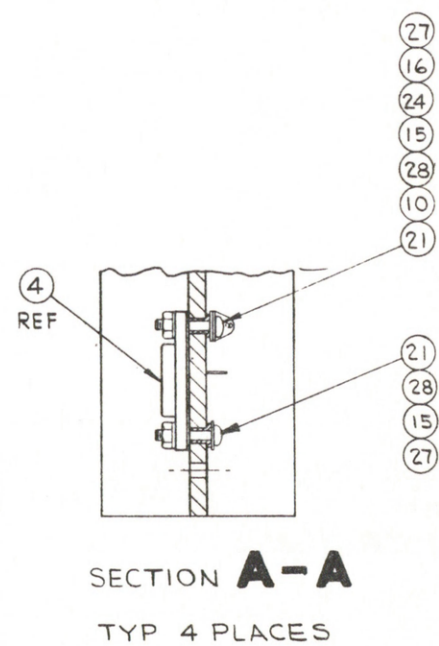
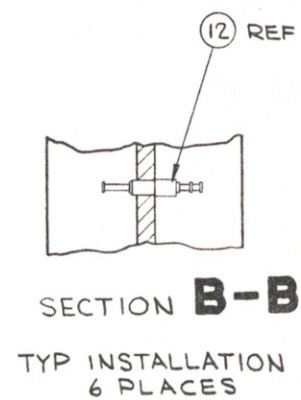


HEAT SINK REGULATOR ASSEMBLY NO. 2						CATALOG NO. 1366071		SHEET 1 OF 1			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
1	1367052-01			HEAT SINK		1					
2	1366910-01			BRACKET, Connector Mounting		1					
4	580-246		Q1,3	TRANSISTOR.		2					
5	059-326		R1,2	RESISTOR, Power, .1 ohm, 25W		2					
6	059-325		R3	RESISTOR, Power, .08 ohm, 25W		1					
7	166-200			CONTACT, Connector Pin, 20-22 GA		A/R					
8	166-227			CONTACT, Connector Pin, 16-18 GA		A/R					
9	169-613		J1	BODY, Rectangular, receptacle connector 50 pin		1					
10	172-004			TERMINAL LUG, Solder, #4		4					
11	1367785			SCHEMATIC		REF					
12	187-054		E1-6	TERMINAL, Feed-Thru, press fit		6					
13	260-062			GROMMET, Nylon, caterpillar, 3/32 thk		A/R					
14	018-019			ADHESIVE, Eastman 910		A/R					
15	265-999		Ref: Q1-4	BUSHING, Sleeve, flanged, nylon		8					
16	280-031		Ref: Q1-4	INSULATOR, Transistor, anod alum		4					
17	302-006			CLAMP, Cable, 7/16		1					
18	302-036			CLAMP, Cable, 3/8		1					
19	470-010			SCREW, Cap, hex socket, 4-40 x .375		2					
20	471-064			SCREW, Cross-Recess, pan head, 4-40 x .500		6					
21	471-065			SCREW, Cross-Recess, pan head, 4-40 x .625		8					
22	471-071			SCREW, Cross-Recess, pan head, 6-32 x .500		2					
23	471-072			SCREW, Cross-Recess, pan head, 6-32 x .625		2					
26	496-002			NUT, Assembled Washer, 6-32		4					
27	496-004			NUT, Assembled Washer, 4-40		10					
28	501-008			WASHER, Plain Flat, #4		8					
29	501-009			WASHER, Plain Flat, #6		2					
30	501-169			WASHER, Lock Spring, #4		6					
31	506-013			WASHER, "D", Cable Clamp, #6		2					
32	492-032			NUT, Hex, plain small pat, #4		6					
33	600-036			SLEEVING, Teflon, flexible, 20 GA		A/R					
34	600-092			SLEEVING, Shrink		A/R					
35	600-147			SLEEVING, Teflon, flexible, 14 GA		A/R					
36	580-244		Q2,4	TRANSISTOR.		2					

X1366071B

10-535/536

AMPEX



Heatsink Regulator Assembly No. 2  
Dwg. No. 1366071



POWER SUPPLY REGULATOR #2 PRINTED WIRING ASSEMBLY (MODULE 223)					CATALOG NO. 1366477	SHEET 1 OF 2 NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
3	1366478			SCHEMATIC		REF					
4				LABEL		1					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
11	473-325			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recess, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
19	501-712			WASHER, Flat, brass, .032 thk		1					
22	139-021			CONNECTOR, Coax		1					
24	013-172		VR2,3	DIODE, Zener, 4.3V		2					
25	013-460	1N825A	VR1	DIODE, Zener, 6.2V		1					
28	013-678		CR1,2	DIODE, Silicon		2					
31	014-247		Q2,4,5,9	TRANSISTOR		4					
32	014-364		Q1,3,8,10,11	TRANSISTOR		5					
33	014-755		REF: Q6,7,12,13	HEATSINK, Transistor		4					
36	030-095		C11,14,16,23	CAPACITOR, Ceramic, .1μF,25V,20%		4					
37	030-101		C5,6,17,18	CAPACITOR, Ceramic, .47μF,25V,20%		4					
38	037-117		C12,13,15,19	CAPACITOR, Tantalum,150μF,30V,20%		4					
39	037-152		C8	CAPACITOR, Tantalum, 82μF,50V,20%		1					
40	037-620		C3,4	CAPACITOR, Tantalum,100μF,20V,10%		2					
41	037-736		C1,10	CAPACITOR, Tantalum,22μF,35V,10%		2					
42	037-746		C21,22	CAPACITOR, Tantalum,47μF,20V,10%		2					
43	037-991		C2,7,9,20,24	CAPACITOR, Tantalum,22μF,15V,10%		5					
46	041-003		R33	RESISTOR, Fixed, 100 ohm,1/2W,5%		1					
47	041-282		R22,29,34,41	RESISTOR, Fixed, 150 ohm,1/2W,5%		4					
48	041-433		R24,27,35,38	RESISTOR, Fixed, 27 ohm,1/2W,5%		4					
49	041-465		R17,19	RESISTOR, Fixed, 680 ohm,1W,5%		2					
50	041-501		R7,15	RESISTOR, Fixed, 330 ohm,1W,5%		2					
51	048-715		R6	RESISTOR, Fixed, 536 ohm,1/4W,1%		1					
52	042-471		R18,20	RESISTOR, Fixed, 100 ohm,1/4W,1%		2					
53	048-259		R8,13,25,28,36,37	RESISTOR, Fixed, 1k ohm,1/4W,1%		6					
54	062-496		R2	RESISTOR, Fixed, 665 ohm,1/4W,1%		1					
55	048-551		R14,16,26	RESISTOR, Fixed, 698 ohm,1/4W,1%		3					
56	057-096		R21,31,40	RESISTOR, Fixed, 1k ohm,1/4W,2%		3					
57	057-110		R23,30	RESISTOR, Fixed, 3.9k ohm,1/4W,2%		2					
58	057-116		R39	RESISTOR, Fixed, 6.8k ohm,1/4W,2%		1					
59	062-482		R3	RESISTOR, Fixed, 1.58k ohm,1/4W,1%		1					
60	058-541		R1	RESISTOR, Variable, wirewound, 200 ohm, 1W,5%		1					
61	059-330		R32	RESISTOR, Wirewound, .30 ohm,5W3%		1					
62	062-445		R10	RESISTOR, Fixed, 500 ohm,.400W,.1%		1					
63	062-446		R11	RESISTOR, Fixed, 520 ohm,.400W,.1%		1					
64	062-447		R12	RESISTOR, Fixed, 679.8 ohm,.400W,.1%		1					

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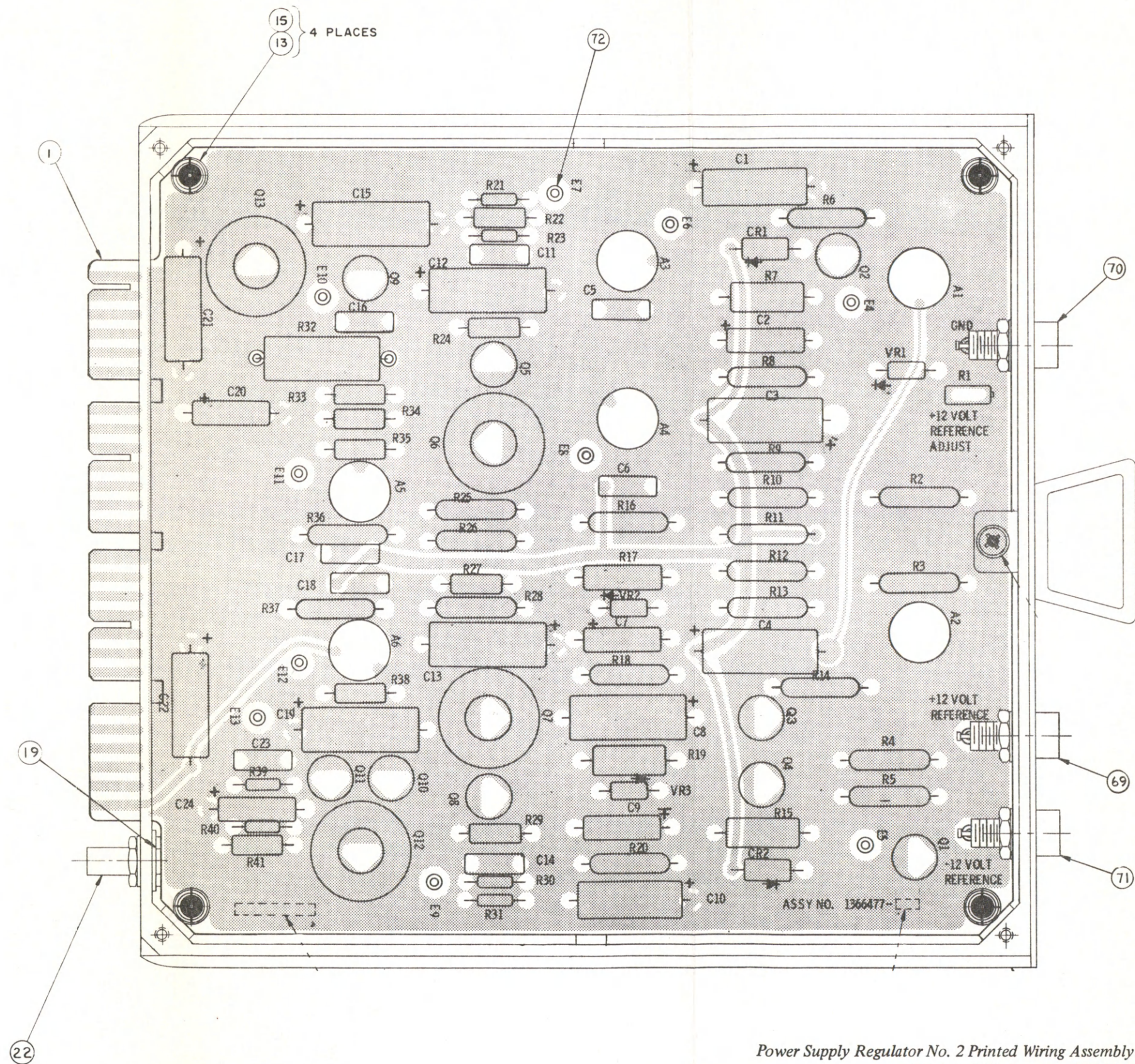
POWER SUPPLY REGULATOR #2 PRINTED WIRING ASSEMBLY (MODULE 223)				CATALOG NO.	1366477	SHEET 2 OF 2					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
65	062-448		R9	RESISTOR, Fixed, 699.8 ohm,.400W, .1%		1					
66	062-449		R4,5	RESISTOR, Fixed, 1.425k ohm,.400W, .1%		2					
69	148-018		TP2	CONNECTOR, Tip Jack, red		1					
70	148-019		TP1	CONNECTOR, Tip Jack, black		1					
71	148-022		TP3	CONNECTOR, Tip Jack, dark blue		1					
72	173-620		E1-13	TERMINAL STUD, Turret Swage		13					
73	280-173		REF: A1-6	MOUNTING PAD, Integrated Circuit		6					
74	280-998		REF: Q1-13	MOUNTING PAD, Transistor		13					
77	580-166	2N4322	Q7,12	TRANSISTOR		2					
78	580-167	2N5320	Q6,13	TRANSISTOR		2					
80	103307-01		REF: R32	STANDOFF		2					
81	586-269	UA741C	A1-6	CIRCUIT, Integrated		13					

X1366477

10-540



AMPEX



Power Supply Regulator No. 2 Printed Wiring Assembly  
(Module 223) Dwg. No. 1366477



BUFFER TEST PANEL ASSEMBLY					CATALOG NO. 1367348	SHEET 1 OF 1							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
1	1366612-01		S1	SWITCH, 1 Pole, 17 Position		1							
2	1367070-01			TRAY, Switch Mounting		1							
3	1367072-01			OVERLAY, Switch Mounting		1							
4	6000006-20			KNOB, Skirted, 5/8 Series, Black		1							
5	1367745			SCHEMATIC		REF							
6	013-599		CR1	DIODE		1							
8	058-523		R1	RESISTOR, Variable, 50KΩ, 1.5W, ±5%		1							
10	060-076		DS1-14	LIGHT, Indicator, 28V, .040A, Amber		14							
12	166-200		Ref: P1	CONTACT PIN, 20-22 GA		6							
13	166-226		Ref: P1	CONTACT PIN, 24-26 GA		23							
14	166-230		P1	BODY, Rectangular Plug, 34 position (Connector Parts)		1							
15	172-014		Ref: R1	TERMINAL LUG, Solder, 3/8 Stud		1							
16	296-004			LACING TAPE, Black		A/R							
18	310-105		Ref: DS1-14	CLIP, Cartridge, Lamp		14							
19	310-106		Ref: DS1-14	SOCKET, Lamp		14							

X1367348A

10-543/544



ELECTRONICS ASSEMBLY NO. 2 CARD RACK ASSEMBLY					CATALOG NO. 1366055		SHEET 1 OF 2							
					NHA 1366053									
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
1	1363790-01	J201-204,218-222, 224-244		MOUNT, Connector, 28/56 P		44								
2	1364092-01			INSERT, Locking Bar		2								
3	1364973-01			BUSHING, Guide		105								
4	1365473-01			BRACKET, Mounting, coax connector		44								
5	1365477-01			CONNECTOR, Printed Wiring Board, 28 contact		30								
6	1366028-02			PLATE, Front		1								
7	1366029-02			PLATE, Rear		1								
8	1366037-01			BLOCK, Pivot		2								
9	1366038-02			HANDLE, Latch		1								
10	1366039-01			STRIKER, Latch		1								
11	1366048-01			TERMINAL, Capacitor		8								
12	1366051-02			PANEL, Heatsink Mounting		1								
13	1366058-01			FRAME, Support		1								
14	1366061-01			PLATE, Center, rear		1								
15	1366062-01			RAIL, Center, front		1								
16	1366063-01			RAIL, Lower, rear		1								
17	1366064-01			RAIL, Lower, Front		1								
18	1366688-01			LOCKING BAR		2								
19	1366884-01			END PLATE, Locking Bar		2								
20	1366884-02			END PLATE, Locking Bar		2								
21	1366928-01			BRACKET, Lower, rear		1								
22	1366938-01			BAR, Support, coax mounting bracket		2								
23	1367011-01			RAIL, Center, rear		1								
24	1367047-01			BLOCK, Rail Support		4								
26	1367551-01			GROUND BUS BAR		1								
27		LABEL, Locking Bar, upper		1										
28		LABEL, Locking Bar, lower		1										
29	1214756-01	TERMINAL, Duo		2										
30	1366054-01	WIRING DIAGRAM		REF										
37	013-759	1N4720		DIODE, Silicon		2								
38	018-010			ADHESIVE		A/R								
39	018-019	Eastman 910		ADHESIVE		A/R								
40	018-081			ADHESIVE, Thread Locking, grade H		A/R								
42	037-584			CAPACITOR, Tantalum, 90μF, 10V		1								
43	063-079		C1-5	CAPACITOR, Aluminum, 2600μF, 40V		5								
44	063-091			CLAMP, Capacitor		5								
47	139-020			CONNECTOR, Receptacle, min. coax		105								
50	143-804		J205-217,223	CONNECTOR, Printed Wiring Board, 56 contacts		14								
51	143-991			CONNECTOR, Receptacle, mini coax		A/R								
53	166-103		J4	CONNECTOR, 10 Pin, coax		1								
54	166-106		J1,2	CONNECTOR, 57 Pin		2								
55	166-199			CONTACT, Socket, 20-22 AWG		A/R								
56	166-200			CONTACT, Pin, 20-22 AWG		A/R								
57	166-222			CONTACT, Standard, coax, pin		A/R								
58	166-224			CONTACT, Socket, 24-26 AWG		A/R								
59	166-225			CONTACT, Socket, 16-18 AWG		A/R								

X1366055B

ELECTRONICS ASSEMBLY NO. 2 CARD RACK ASSEMBLY					CATALOG NO.	1366055	SHEET 2 OF 2					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
60	166-226	Burndy J1 MS-50-PM-118	J5	CONTACT, Pin, 24-26 AWG		A/R						
61	166-227			CONTACT, Pin, 16-18 AWG		A/R						
62	166-232			CONNECTOR		1						
63	166-256			FERRULE, Shield Grounding		A/R						
66	168-078			CONNECTOR, 21 Pin, coax		1						
69	169-091			CONTACT, Body, mini coax		A/R						
70	169-153			CONTACT, Pin, mini coax		A/R						
71	169-318			KEY, Connector Polarizing		132						
72	169-389			RIVET, Printed Circuit Board		88						
73	169-719			CONNECTOR, Receptacle, 34 pin, test connector & test panel connector		2						
74	169-844	CONTACT, Body, standard coax		A/R								
75	169-847	FERRULE, Shield Grounding		A/R								
76	169-930	GUIDE, Printed Circuit Board		88								
79	186-004	BUS BAR, 16 AWG		A/R								
81	280-333	SPACER, Unthreaded, plain, #10 x .125		1								
82	280-988	SPACER, Threaded, plain, 6-32 x .250 diameter x 1.00 long		1								

X1366055B



**REF PULSE SENSOR AND  
"A" SCOPE SELECTOR  
MODULES 201-202**

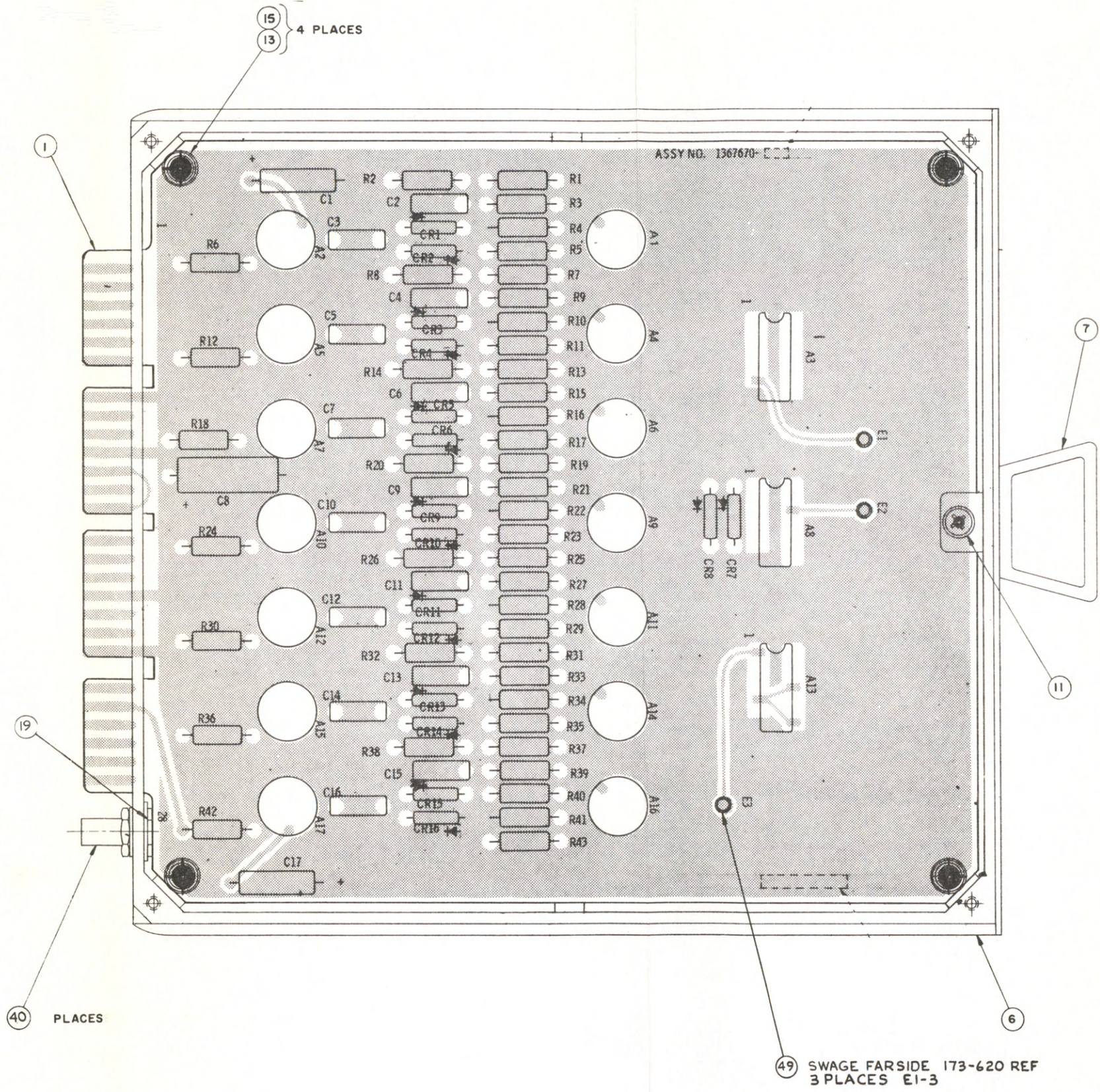
REFERENCE PULSE SENSOR PRINTED WIRING ASSEMBLY (MODULE 201)					CATALOG NO. 1367670	SHEET 1 OF 1				
						NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION				
						-01				
3	1367671			SCHEMATIC		REF				
6	1363789-01			FRAME, Module		1				
7	1363791-01			HANDLE, Printed Wiring Board		1				
8	1365046-01			COVER, Module		2				
11	473-325			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .312		1				
12	471-325			SCREW, Cross-recessed, flat head, 4-40 x .188		8				
13	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4				
15	501-008			WASHER, Plain #4		4				
18	501-711			WASHER, Flat, brass, .040 thk						
19	501-712			WASHER, Flat, brass, .032 thk		1				
21	013-689		CR1-16	DIODE		16				
24	030-223		C6,7	CAPACITOR, Monolythic, 2.2mF, 25V		2				
28	035-893		C2-5,9-16	CAPACITOR, Mylar, .1μF, 50V		12				
30	037-749		C8	CAPACITOR, Tantalum, 68μF, 15V		1				
31	037-985		C1,17	CAPACITOR, Tantalum, 15μF, 20V		2				
34	041-008		R5,11,17,23,29,37,43	RESISTOR, Fixed, 1.5k ohm, 1/2W, 5%		7				
35	041-014		R1,7,13,19,25,31,39	RESISTOR, Fixed, 10k ohm, 1/2W, 5%		7				
36	041-239		R3,4,9,10,15,16,21,22,27,28,33,34,40,41	RESISTOR, Fixed, 2.2k ohm, 1/2W, 5%		14				
37	041-254		R6,12,18,24,30,36,42	RESISTOR, Fixed, 15k ohm, 1/2W, 5%		7				
38	041-397		R2,8,14,20,26,32,38	RESISTOR, Fixed, 10 megohm, 1/2W, 5%		7				
39	041-026		R35	RESISTOR, Fixed, 180k ohm, 1/2W, 5%		1				
40	139-021		J8	CONNECTOR, Coax		1				
42	586-060	μA-710C	A1,4,6,9,11,14,16	INTEGRATED CIRCUIT		7				
43	586-151	MC830P	A3	INTEGRATED CIRCUIT		1				
44	586-153	MC846P	A8,13	INTEGRATED CIRCUIT		2				
45	586-261	LM302H	A2,5,7,10,12,15,17	INTEGRATED CIRCUIT		7				
49	173-620		E1-3	TERMINAL STUD, Turret, Swage		3				
52	280-173		A1,2,4-7,9-12,14-17	MOUNTING PAD, Integrated Circuit, 8 pins		14				
55				LABEL						

X1367670A

10-547/548



AMPEX



Reference Pulse Sensor Printed Wiring Assembly  
(Module 201) Dwg. No. 1367670



"A" SCOPE SIGNAL SELECTOR II PRINTED WIRING ASSEMBLY (MODULE 202)					CATALOG NO. 1365156	SHEET 1 OF 2 NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1365158	1N994		SCHEMATIC		REF					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Mocule		2					
12	013-101		CR42-53	DIODE		12					
13	013-599		CR1-41,54	DIODE		42					
15	014-505		Q2,4	TRANSISTOR		2					
17	014-364		Q6	TRANSISTOR		1					
20	014-506		Q1,3,5	TRANSISTOR		3					
25	030-963		C2,5,8,11,19,21,25,26,27,32,34,35	CAPACITOR, Ceramic, .1μF, 100V, 10%		13					
26	030-966		C13,15,17	CAPACITOR, Ceramic, .01μF, 100V, 10%		3					
27	035-893		C6,10,16	CAPACITOR, Mylar, .1μF, 50V, 5%		3					
28	035-734		C23,24	CAPACITOR, Mylar, .01μF, 20V, 5%		2					
29	037-991		C33	CAPACITOR, Tantalum, 22μF, 15V, 10%		1					
30	037-186		C3,20	CAPACITOR, Tantalum, 120μF,10V, 10%		2					
31	037-745		C29,30	CAPACITOR, Tantalum, 47μF, 6V, 10%		2					
32	037-749		C4,31	CAPACITOR, Tantalum, 68μF, 15V, 10%		2					
33	037-985		C1,7,18,22,28	CAPACITOR, Tantalum, 15μF, 20V, 10%		5					
34	037-740		C14	CAPACITOR, Tantalum, 33μF, 10V, 10%		1					
37	041-750		R26	RESISTOR, Fixed, 22k ohm, 1/4W, 5%							
39	041-514		R37	RESISTOR, Fixed, 9.1k ohm, 1/4W, 5%		1					
40	041-410		R54,76	RESISTOR, Fixed, 1k ohm, 1/4W, 5%		2					
41	041-413		R71,106	RESISTOR, Fixed, 6.8k ohm, 1/4W, 5%		2					
42	041-414		R105	RESISTOR, Fixed, 2.2k ohm, 1/4W, 5%		1					
43	041-419		R97,99	RESISTOR, Fixed, 100 ohm,1/4W, 5%		2					
44	041-425		R34	RESISTOR, Fixed, 47 ohm, 1/4W, 5%		1					
45	041-428		R81	RESISTOR, Fixed, 470 ohm, 1/4W, 5%		1					
46	041-431		R24,40,53,68,75,92	RESISTOR, Fixed, 150k ohm, 1/4W, 5%		6					
47	041-508		R70	RESISTOR, Fixed, 20k ohm, 1/4W, 5%		1					
48	041-443		R77	RESISTOR, Fixed, 39k ohm, 1/4W, 5%		1					
49	041-408		R1,3,5,7,9,11,13,17,19,83,84	RESISTOR, Fixed, 10k ohm, 1/4W, 5%		11					
51	041-507		R2,4,6,8,10,12,14,18,49	RESISTOR, Fixed, 5.6k ohm, 1/4W, 5%		9					
52	041-511		R16	RESISTOR, Fixed, 3.9k ohm, 1/4W, 5%		1					
53	041-518		R55	RESISTOR, Fixed, 33k ohm, 1/4W, 5%		1					
54	041-531		R108	RESISTOR, Fixed, 750 ohm, 1/4W, 5%		1					
55	041-538		R42,96	RESISTOR, Fixed, 6.2k ohm, 1/4W, 5%		2					
56	041-520		R21,65	RESISTOR, Fixed, 7.5k ohm, 1/4W, 5%		2					
57	041-550		R82	RESISTOR, Fixed, 3k ohm, 1/4W, 5%		1					
59	041-647		R63	RESISTOR, Fixed, 75 ohm, 1/4W, 5%		1					
60	041-653		R33,35,56,85,104	RESISTOR, Fixed, 39 ohm, 1/4W, 5%		5					
61	062-387		R23,39,52,67,74,91	RESISTOR, Metal Film, 80.6 ohm, 1/4W, 1%		6					
62	048-588		R95	RESISTOR, Metal Film, 3.01k ohm, 1/8W, 1%		1					

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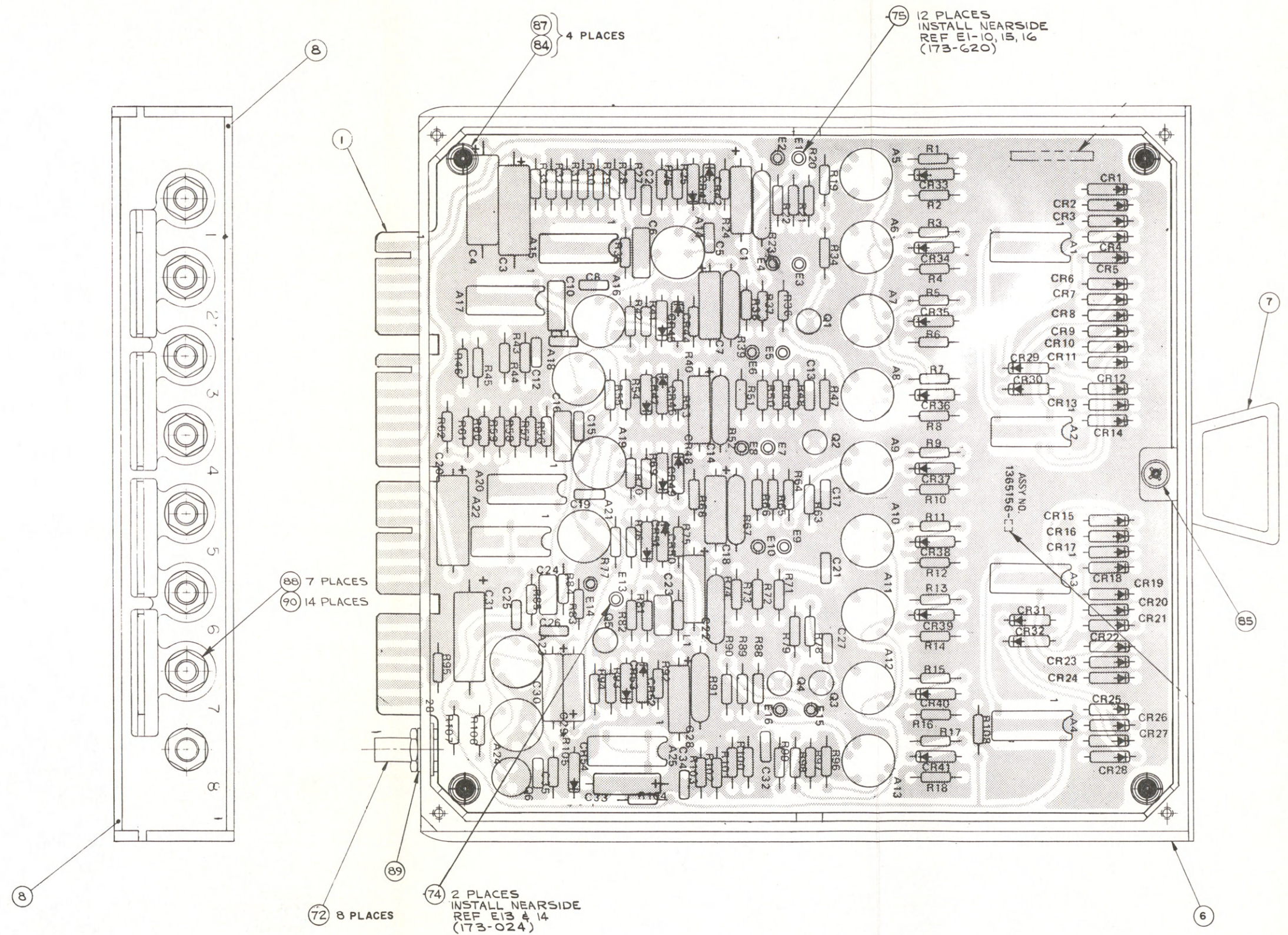


"A" SCOPE SIGNAL SELECTOR II PRINTED WIRING ASSEMBLY (MODULE 202)					CATALOG NO.	1365156	SHEET 2 OF 2		NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION											
						-02											
63	041-561		R15,47	RESISTOR, Fixed, 5.1k ohm, 1/4W, 5%		2											
64	062-617		R107	RESISTOR, Metal Film, 9.09k ohm, 1/8W, 1%		1											
65	062-616		R20,38,50,66,73,90	RESISTOR, Metal Film, 931 ohm, 1/8W, 1%		6											
66	062-615		R22,36,51,64,72,89	RESISTOR, Metal Film, 121 ohm, 1/8W, 1%		6											
69	062-474		R79	RESISTOR, Metal Film, 73.2 ohm, 1/8W, 1%		1											
70	041-748		R88	RESISTOR, Fixed, 11k ohm, 1/4W, 5%		1											
71	051-383		L1	INDUCTOR, 470 mH, 10%		1											
72	139-012		J1-8	CONNECTOR, Rf		8											
73	041-560		R25,28,30,32,14,43,45,48,57,59,61,69,78,93,94,98,100,102	RESISTOR, Fixed, 2k ohm, 1/4W, 5%		18											
74	173-024		E13,14	TERMINAL STUD, Turret, dual		2											
75	173-620		E1-10,15,16	TERMINAL STUD, Turret, single		12											
76	062-614		R27,29,44,46,58,62,103	RESISTOR, Metal Film, 86.6 ohm, 1/8W, 1%		7											
77	280-130	T018	Q1-5	SPACER, Transistor		5											
78	280-173		A14,16,18,19,21,23,24	MOUNTING PAD, Integrated Circuit, 8 pins		7											
79	280-174		A5-13	MOUNTING PAD, Integrated Circuit, 10 pins		9											
80	280-998	T05	Q6	SPACER, Transistor		1											
81	062-613		R31,60,101	RESISTOR, Metal Film, 68.1 ohm, 1/8W, 1%		3											
83	471-325			SCREW, Cross-recessed, flat head, 4-40 x .188		8											
84	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4											
85	473-325			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .312		1											
87	501-008			WASHER, Plain #4		4											
88	501-740			WASHER, Flat, aluminum, .016 thk		7											
89	501-712			WASHER, Flat, brass, .032 thk		1											
90	501-715			WASHER, Shoulder, nylon		14											
92	586-255	CA3019	A5-13	CIRCUIT, Diode Array		9											
93	586-269	F741	A23	INTEGRATED CIRCUIT		1											
94	586-335	LM306	A14,16,18,19,21,24	INTEGRATED CIRCUIT		6											
95	586-444	F9110	A1-4	INTEGRATED CIRCUIT		4											
96	586-455	MC3000	A15,17,20,22,25	INTEGRATED CIRCUIT		5											

X1365156C

10-552



**AMPEX**

*"A" Scope Signal Selector 2 Printed Wiring Assembly  
(Module 202) Dwg. No. 1365156*



**LOGIC AND ERROR DETECTION**  
**MODULES 205-221**

TEST GENERATOR PRINTED WIRING ASSEMBLY (MODULE 205)					CATALOG NO. 1364705	SHEET 1 OF 2							
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364707			SCHEMATIC		REF							
4	1368188-51			LABEL, Module		1							
5	1368267-01			OVERLAY, Module		1							
6	1363789-01			FRAME, Module		1							
7	1363791-01			HANDLE, Printed Wiring Board		1							
8	1365046-01			COVER, Module		2							
9	1365671-01			COVER, Module		-							
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1							
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4							
15	501-008			WASHER, Plain, #4		4							
19	501-712			WASHER, Flat, brass, .032 thick		1							
20	501-715			WASHER, Shoulder, nylon		-							
22	013-257		VR1-4	DIODE, 6.2V, ±5%		4							
23	013-541		VR5	DIODE, 3.6V, ±5%		1							
24	013-677		CR1-6	DIODE		6							
25	014-712		Q1,2,6,8,10,14,17	SPACER, Transistor, dual		7							
26	014-247		Q7	TRANSISTOR		1							
27	014-505		Q3,9,11	TRANSISTOR		3							
28	014-581		Q4,5,12,13,15,16	TRANSISTOR		6							
29	014-628		Q2,6,14	TRANSISTOR		3							
30	037-740		C13	CAPACITOR, Tantalum, 33μF, 10V, 10%		1							
31	034-921		C18	CAPACITOR, Mica, 1300PF, 500V, 5%		1							
32	037-164		C1,3,8,17,19	CAPACITOR, Tantalum, 1μF, 35V, 10%		5							
33	037-367		C9	CAPACITOR, Tantalum, 2.2μF, 20V, 10%		1							
34	037-472		C2,6,7	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		3							
35	037-728		C10,11,14	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		3							
37	037-991		C5,15	CAPACITOR, Tantalum, 22μF, 15V, 10%		2							
38	041-396		R54	RESISTOR, Fixed, 220 ohm, 1/4W, 5%		1							
39	048-258		R14,34,43	RESISTOR, Metal Film, 1.69K ohm, 1/4W, 1%		3							
40	048-259		R4,23,51	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		3							
41	048-625		R9	RESISTOR, Metal Film, 150 ohm, 1/4W, 1%		1							
42	048-653		R38	RESISTOR, Metal Film, 475 ohm, 1/4W, 1%		1							
43	048-671		R26	RESISTOR, Metal Film, 422 ohm, 1/4W, 1%		1							
44	048-712		R50	RESISTOR, Metal Film, 75 ohm, 1/4W, 1%		1							
45	041-425		R12,13,35,36,45,46	RESISTOR, Fixed, 47 ohm, 1/4W, 5%		6							
46	056-178		C4,12,16	CAPACITOR, Mica, 10,000 PF, 100V,1%		3							
47	057-675		R10,32,40	RESISTOR, Metal Film, 301 ohm, 1/4W, 1%		3							

X1364705D

10-555

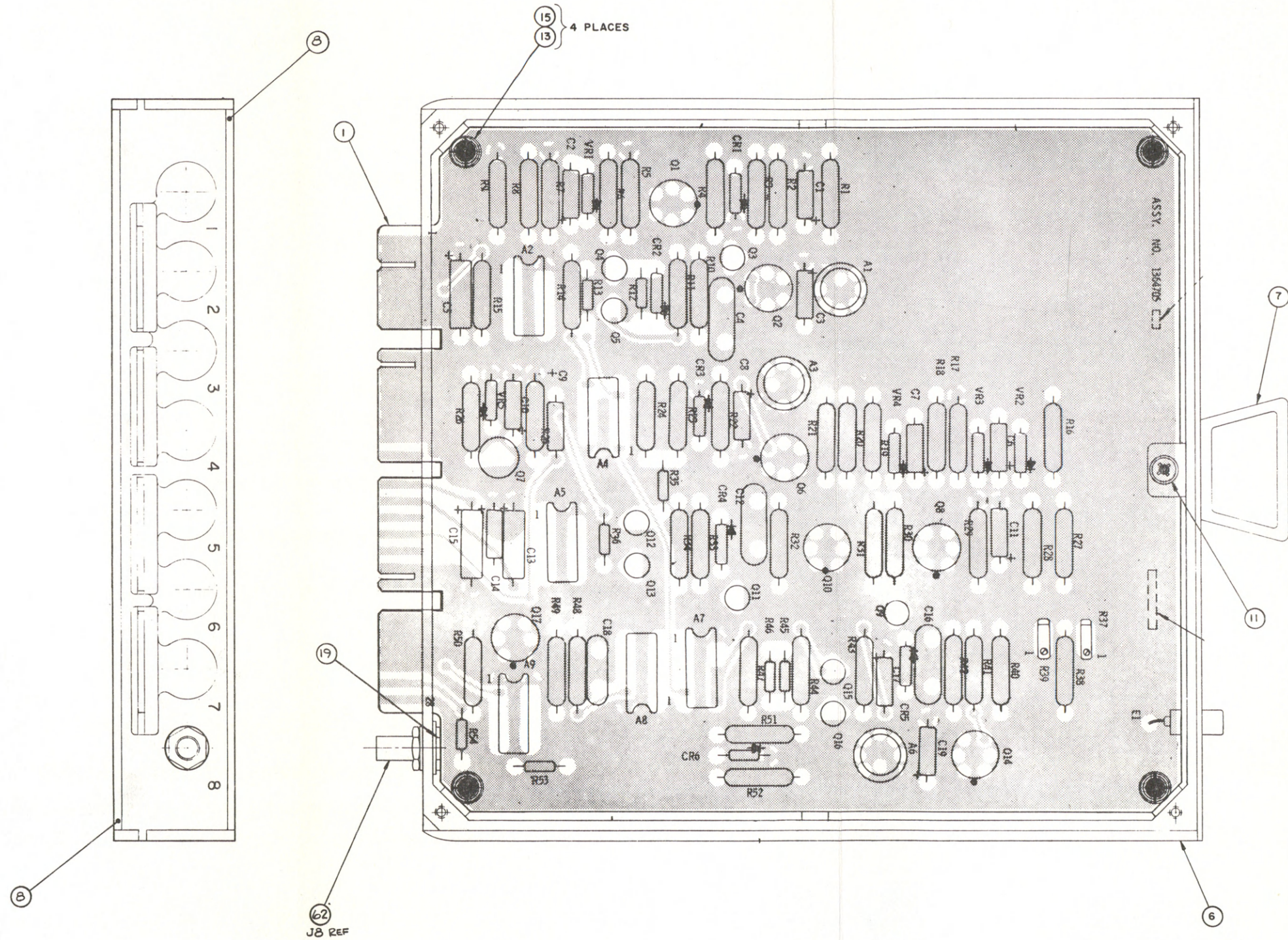


TEST GENERATOR PRINTED WIRING ASSEMBLY (MODULE 205)					CATALOG NO. 1364705	SHEET 2 OF 2							
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
48	057-790		R7,17,30	RESISTOR, Metal Film, 887 ohm, 1/4W, 1%		3							
49	057-793		R48	RESISTOR, Metal Film, 2.1K ohm, 1/4W, 1%		1							
50	057-980		R1,22,52	RESISTOR, Metal Film, 2.05K ohm, 1/4W, 1%		3							
51	062-260		R5,29,31	RESISTOR, Metal Film, 5.11K ohm, 1/4W, 1%		3							
52	062-261		R6,18,19	RESISTOR, Metal Film, 6.19K ohm, 1/4W, 1%		3							
53	062-265		R2,3,20,21,41,42	RESISTOR, Metal Film, 121K ohm, 1/4W, 1%		6							
54	062-285		R15	RESISTOR, Metal Film, 243 ohm, 1/4W, 1%		1							
55	062-353		R25	RESISTOR, Metal Film, 287 ohm, 1/4W, 1%		1							
56	062-413		R8,24,47	RESISTOR, Metal Film, 4.22K ohm, 1/4W, 1%		3							
57	062-494		R27, 28	RESISTOR, Metal Film, 178 ohm, 1/4W, 1%		2							
58	062-495		R49	RESISTOR, Metal Film, 442 ohm, 1/4W, 1%		1							
59	062-496		R16	RESISTOR, Metal Film, 665 ohm, 1/4W, 1%		1							
60	062-497		R11,33,44	RESISTOR, Metal Film, 9.76 ohm, 1/4W, 1%		3							
62	143-989		J8	CONNECTOR, Coaxial		1							
63	041-430		R53	RESISTOR, Fixed, 1.5K ohm, 1/4W, 5%		1							
64	580-168	MD2369	Q1,8,10,17	TRANSISTOR		4							
65	058-589		R37,39	RESISTOR, Variable, wirewound, 200 ohm, 1W, 5%		2							
66	586-488	MC1235L	A5	INTEGRATED CIRCUIT		1							
68	586-060	μA710C	A1,3,6	INTEGRATED CIRCUIT		3							
69	586-490	MC1213L	A2,4,7,8	INTEGRATED CIRCUIT		4							
70	586-483	MC1226L	A9	INTEGRATED CIRCUIT		1							
72	143-933		TP1	CONNECTOR, Bulkhead, receptacle		1							
73	280-130	TO-18	Q3-5,11-13,9,15,16	SPACER, Transistor		9							
75	280-173		A1,3,6	SPACER, Integrated Circuit, 8 pin		3							
76	280-998	TO-5	Q7	SPACER, Transistor		1							

X1364705D



AMPEX



Test Generator Printed Wiring Assembly (Module 205)  
Dwg. No. 1364705

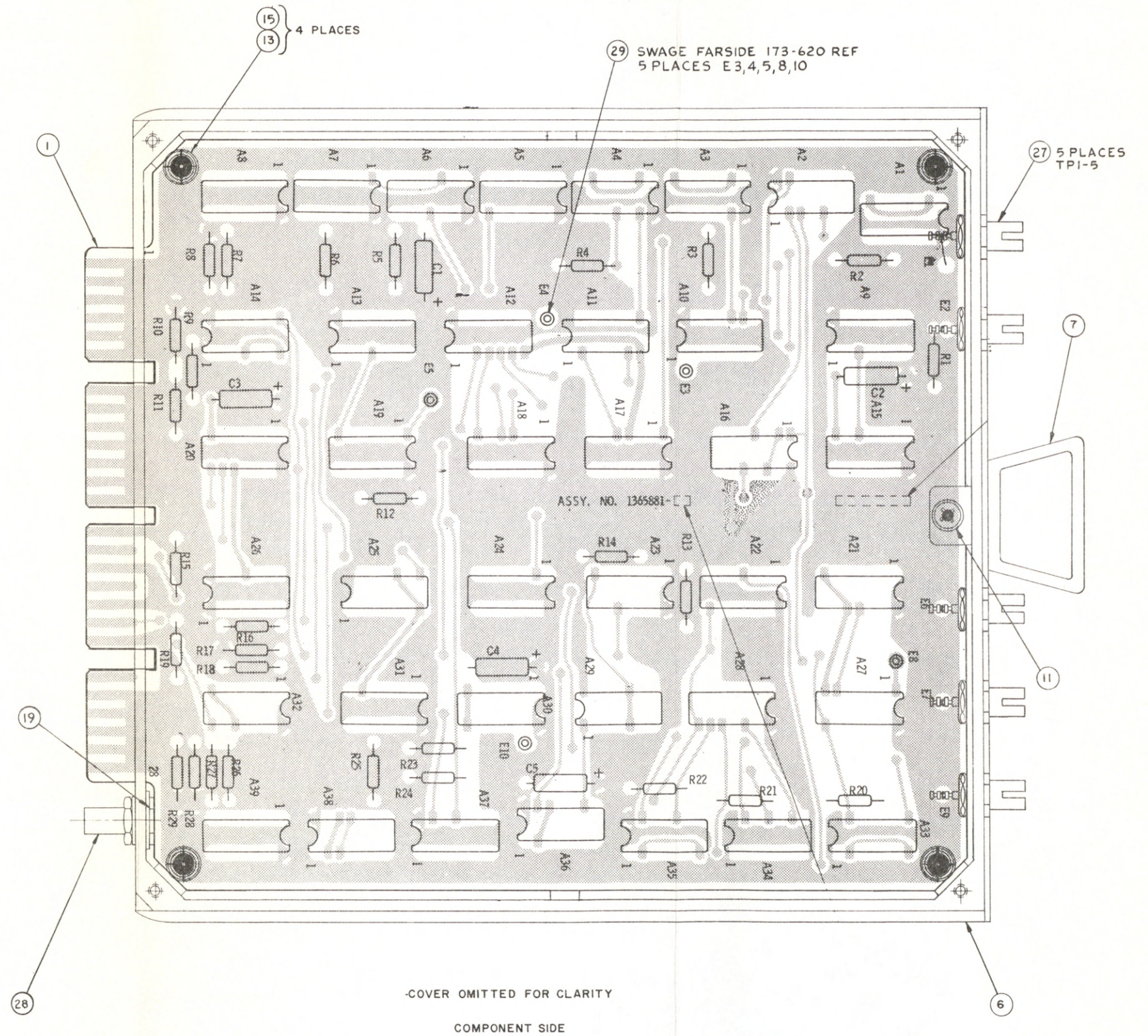


STORE CONTROL PRINTED WIRING ASSEMBLY (MODULE 206)						CATALOG NO. X1365881		SHEET 1 OF 1			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1365883			SCHEMATIC		REF					
10	018-285			ADHESIVE, Thread Locking		A/R					
11	473-325			SCREW, Assembled Washer, pan head cross-recessed, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
19	501-712			WASHER, Flat, brass, .032 thick		1					
20	037-472		C1-5	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		5					
21	041-396		R1,9,12,13,16	RESISTOR, Comp., 220 ohm, 1/4W, 5%		5					
22	041-430		R15,19	RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2					
23	041-559		R2-6,20-25	RESISTOR, Comp., 120 ohm, 1/4W, 5%		11					
24	041-735		R14	RESISTOR, Comp., 91 ohm, 1/4W, 5%		1					
25	057-226		R7,11,18,26,27	RESISTOR, Metal Film, 243 ohm, 1/8W, 1%		5					
26	062-533		R8,10,17,28,29	RESISTOR, Metal Film, 150 ohm, 1/8W, 1%		5					
27	143-933		TP1-5	CONNECTOR, Bulkhead, RF receptacle		5					
28	143-989		J8	CONNECTOR, Coaxial		1					
29	173-620		E3-5,8,10	TERMINAL LUG		5					
30	586-469	MC1201L	A5,8,9-13,22-25,27-31,39	INTEGRATED CIRCUIT		17					
31	586-473	MC1210L	A16,32	INTEGRATED CIRCUIT		2					
32	586-476	MC1215L	A15,17,20	INTEGRATED CIRCUIT		3					
33	586-483	MC1226L	A26	INTEGRATED CIRCUIT		1					
34	586-487	MC1233L	A18,19	INTEGRATED CIRCUIT		2					
35	586-489	MC1204L	A2,14,21	INTEGRATED CIRCUIT		3					
36	586-490	MC1213L	A1,3,4,6,7,33-38	INTEGRATED CIRCUIT		11					
37	615-004			WIRE, Bare, solid, 24 AWG		A/R					

X1365881D



AMPEX





ANALOG LEAD PRINTED WIRING ASSEMBLY (MODULE 207)						CATALOG NO. X1364732		SHEET 1 OF 3			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364734			SCHEMATIC		REF					
4	1366817-01		A8,11	SPRING, Ground, clip		2					
5	1368188-53			LABEL, Module		1					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
9	1368269-01			OVERLAY, Module		1					
10	018-285			ADHESIVE, Thread Locking		A/R					
11	473-325			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
19	501-712			WASHER, Flat, brass, .032 thick		1					
22	013-677		CR1-4	DIODE		4					
23	013-838		A8,11	DIODE ASSEMBLY, Matched Quad		2					
25	014-247		Q9,10	TRANSISTOR		2					
26	014-248		Q1,2,6-8,11,12	TRAN SISTOR		7					
27	014-387		Q3-5	TRANSISTOR		3					
30	034-153		C7	CAPACITOR, Mica, 1000PF, 500V, 5%		1					
31	034-156		C19	CAPACITOR, Mica, 5PF, 500V, .5PF		1					
32	034-157		C12	CAPACITOR, Mica, 2PF, 500V, .5PF		1					
33	034-161		C11	CAPACITOR, Mica, 2000PF, 500V, 5%		1					
34	034-213		C20	CAPACITOR, Mica, 150PF, 500V, 5%		1					
35	034-288		C4,5	CAPACITOR, Mica, 390PF, 500V, 5%		2					
36	034-291		C25	CAPACITOR, Mica, 1600PF, 500V, 5%		1					
37	056-020		C10	CAPACITOR, Mica, 1100PF, 500V, 1%		1					
38	056-292		C8	CAPACITOR, Mica, 500PF, 500V, 5%		1					
41	037-164		C2,3,6,9,13,14,18,21,23,26	CAPACITOR, Tantalum, 1.0μF, 35V, 10%		10					
42	037-726		C22,27-29	CAPACITOR, Tantalum, 3.3μF, 15V, 10%		4					
43	037-728		C1,24	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		2					
44	037-740		C17	CAPACITOR, Tantalum, 33μF, 10V, 10%		1					
45	037-991		C15,16	CAPACITOR, Tantalum, 22μF, 15V, 10%		2					
48	041-010		R63,64	RESISTOR, Comp., 2K ohm, 1/2W, 5%		2					
49	041-239		R15	RESISTOR, Comp., 2.2K ohm, 1/2W, 5%		1					

X1364732F

ANALOG LEAD PRINTED WIRING ASSEMBLY (MODULE 207)					CATALOG NO. X1364732	SHEET 2 OF 3					
					NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
50	041-278		R2	RESISTOR, Comp., 2.7K ohm, 1/2W, 5%		1					
51	041-303		R41	RESISTOR, Comp., 3.9K ohm, 1/2W, 5%		1					
52	041-396		R12,13,35,55	RESISTOR, Comp., 220 ohm, 1/4W, 5%		4					
53	041-425		R1,3,14,16,52,53,54,68	RESISTOR, Comp., 47 ohm, 1/4W, 5%		8					
54	041-430		R17,18	RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2					
55	041-433		R50	RESISTOR, Comp., 27 ohm, 1/2W, 5%		1					
56	041-482		R32,34	RESISTOR, Comp., 12K ohm, 1/4W, 5%		2					
57	041-550		R30	RESISTOR, Comp., 3K ohm, 1/4W, 5%		1					
58	041-560		R19,21	RESISTOR, Comp., 2K ohm, 1/4W, 5%		2					
59	041-742		R20,22	RESISTOR, Comp., 360 ohm, 1/4W, 5%		2					
60	041-419		R27	RESISTOR, Comp., 100 ohm, 1/4W, 5%		1					
61	041-749		R56	RESISTOR, Comp., 16K ohm, 1/4W, 5%		1					
64	042-476		R46	RESISTOR, Metal Film, 2.21K ohm, 1/4W, 1%		1					
65	048-256		R58,60	RESISTOR, Metal Film, 3.48K ohm, 1/4W, 1%		2					
66	048-259		R25,26,51,67	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		4					
67	048-615		R49,66	RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		2					
68	048-715		R43	RESISTOR, Metal Film, 536 ohm, 1/4W, 1%		1					
69	048-743		R4,5	RESISTOR, Metal Film, 1.1K ohm, 1/4W, 1%		2					
70	048-751		R48,65	RESISTOR, Metal Film, 6.04K ohm, 1/4W, 1%		2					
71	048-953		R57	RESISTOR, Metal Film, 249 ohm, 1/4W, 1%		1					
72	057-384		R28,29,37,38	RESISTOR, Metal Film, 2.67K ohm, 1/4W, 1%		4					
73	057-424		R11	RESISTOR, Metal Film, 1.82K ohm, 1/4W, 1%		1					
74	057-724		R10	RESISTOR, Metal Film, 3.4K ohm, 1/4W, 1%		1					
75	057-797		R44	RESISTOR, Metal Film, 8.66K ohm, 1/4W, 1%		1					
76	057-798		R23,24	RESISTOR, Metal Film, 9.53K ohm, 1/4W, 1%		2					
77	057-816		R59,61	RESISTOR, Metal Film, 576 ohm, 1/4W, 1%		2					
78	057-913		R40	RESISTOR, Metal Film, 2.55K ohm, 1/4W, 1%		1					
79	057-980		R6-9,42	RESISTOR, Metal Film, 2.05K ohm, 1/4W, 1%		5					

X1364732F

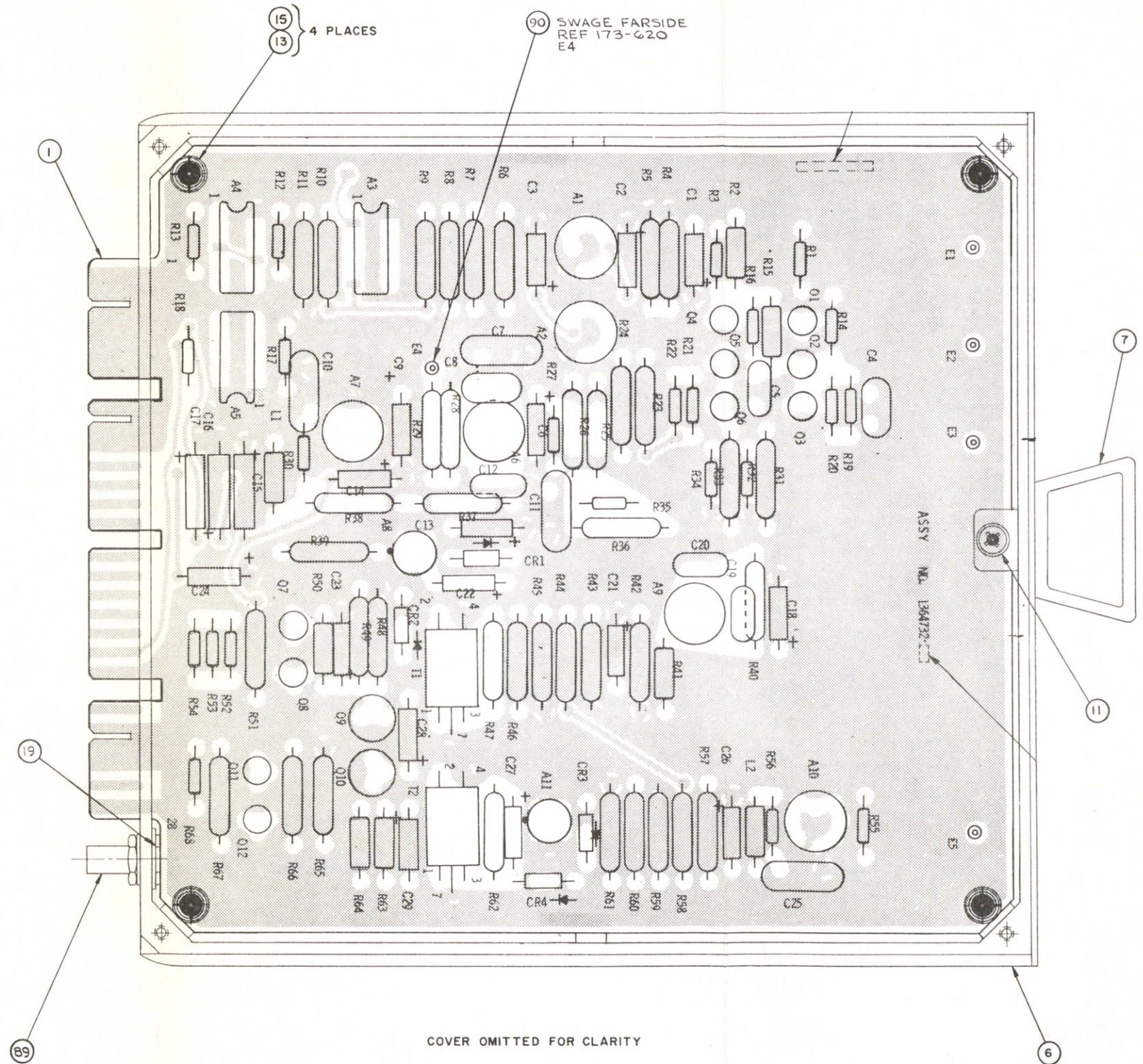


ANALOG LEAD PRINTED WIRING ASSEMBLY (MODULE 207)					CATALOG NO. X1364732	SHEET 3 OF 3							
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
81	062-253		R45	RESISTOR, Metal Film, 649 ohm, 1/4W, 1%		1							
82	062-414		R39,62	RESISTOR, Metal Film, 453 ohm, 1/4W, 1%		2							
83	062-442		R36	RESISTOR, Metal Film, 10.2K ohm, 1/4W, 1%		1							
84	062-557		R47	RESISTOR, Metal Film, 324 ohm, 1/4W, 1%		1							
85	062-635		R31,33	RESISTOR, Metal Film, 48.7K ohm, 1/4W, 1%		2							
88	143-933		TP1-4	CONNECTOR, Bulkhead, R. F. receptacle		4							
89	143-989		J8	CONNECTOR, Coaxial		1							
90	173-620		E4	TERMINAL LUG		1							
92	280-130		Q1-8,11,12	SPACER, Transistor		10							
93	280-173		A1,2,7,9,10	SPACER, Integrated Circuit, 8 pin		5							
94	280-174		A6	SPACER, Integrated Circuit, 10 pin		1							
95	280-998		A8,11,Q9,10	SPACER, Transistor		4							
98	540-025		L1	INDUCTOR, Fixed, 56μH, 5%		1							
99	540-027		L2	INDUCTOR, Fixed, 27μH, 5%		1							
100	560-313		T1,2	TRANSFORMER, Pulse		2							
102	586-060	μA710C	A1,2	INTEGRATED CIRCUIT		2							
103	586-261	LM302H	A7,10	INTEGRATED CIRCUIT		2							
104	586-437	LM301A	A9	INTEGRATED CIRCUIT		1							
105	586-443	μA715C	A6	INTEGRATED CIRCUIT		1							
106	586-477	MC1216L	A4	INTEGRATED CIRCUIT		1							
107	586-483	MC1226L	A5	INTEGRATED CIRCUIT		1							
108	586-488	MC1235L	A3	INTEGRATED CIRCUIT		1							
110	615-004			WIRE, Bare, solid, 24 AWG		A/R							

X1364732F



AMPEX



COVER OMITTED FOR CLARITY

COMPONENT SIDE

Analog Lead Printed Wiring Assembly (Module 207)  
Drawing No. 1364732F



TIME QUANTIZER PRINTED WIRING ASSEMBLY (MODULE 208)					CATALOG NO. 1364711	SHEET 1 OF 2				
					NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION				
						-01				
3	1364713			SCHEMATIC		REF				
6	1363789-01			FRAME, Module		1				
7	1363791-01			HANDLE, Printed Wiring Board		1				
8	1365046-01			COVER, Module		2				
9	1365671-01			COVER, Module		-				
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1				
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8				
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4				
15	501-008			WASHER, Plain, #4		4				
19	501-712			WASHER, Flat, brass, .032 thick		1				
20	501-715			WASHER, Shoulder, nylon						
23	013-257		VR1,2	DIODE, 6.2V ±5%		2				
25	014-505		Q8-11	TRANSISTOR		4				
26	014-506		Q1,2,4,5	TRANSISTOR		4				
27	014-628		Q12	TRANSISTOR		1				
28	014-859	2N4208	Q3,6	TRANSISTOR		2				
31	037-164		C5,10-12	CAPACITOR, Tantalum, 1μF, 35V, 10%		4				
32	034-298		C6,13	CAPACITOR, Mica, 390PF, 500V, 1%						
33	037-740		C9	CAPACITOR, Tantalum, 33μF, 10V, 10%		1				
34	037-472		C1,2	CAPACITOR, Tantalum, 4.7μF, 10V,10%		2				
35	037-728		C3,4	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		2				
37	037-991		C7,8	CAPACITOR, Tantalum, 22μF, 15V, 10%		2				
39	041-419		R25,34	RESISTOR, Fixed, 100 ohm, 1/4W, 5%		2				
40	041-569		R20,22,31,41	RESISTOR, Fixed, 300 ohm, 1/4W, 5%		4				
41	041-740		R23,33	RESISTOR, Fixed, 200 ohm, 1/4W, 5%		2				
43	041-396		R1,4,18,19	RESISTOR, Fixed, 220 ohm, 1/4W, 5%		4				
45	041-410		R28,29	RESISTOR, Fixed, 1K ohm, 1/4W, 5%		2				
46	041-430		R2,3,5,6	RESISTOR, Fixed, 1.5K ohm, 1/4W, 5%		4				
47	048-259		R39	RESISTOR, Metal Film, 1000 ohm, 1/4W, 1%		1				
48	048-260		R35,36	RESISTOR, Metal Film, 681 ohm, 1/4W, 1%		2				
49	048-625		R11,13,14,45,46	RESISTOR, Metal Film, 150 ohm, 1/4W, 1%		5				
50	057-511		R40	RESISTOR, Metal Film, 1400 ohm, 1/4W, 1%		1				
51	057-918		R16	RESISTOR, Metal Film, 9090 ohm, 1/4W, 1%		1				
52	058-538		R43,44	RESISTOR, Variable, cermet, 200 ohm, 1/2W, 10%		2				
53	062-253		R24,42	RESISTOR, Metal Film, 649 ohm, 1/4W, 1%		2				
54	062-256		R26,27	RESISTOR, Metal Film, 1270 ohm, 1/4W, 1%		2				
55	062-263		R8,10	RESISTOR, Metal Film, 6980 ohm, 1/4W, 1%		2				
56	062-264		R7,9	RESISTOR, Metal Film, 25.5K ohm, 1/4W, 1%		2				

X1364711C

TIME QUANTIZER PRINTED WIRING ASSEMBLY					CATALOG NO. 1364711		SHEET 2 OF 2								
							NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-01									
57	062-285		R12,16,30,37,38	RESISTOR, Metal Film, 243 ohm, 1/4W, 1%		5									
58	062-442		R17	RESISTOR, Metal Film, 10.2K ohm, 1/4W, 1%		1									
59	041-612		R21,32	RESISTOR, Fixed, 30K ohm, 1/4W, 5%		2									
60	139-021		J8	CONNECTOR, Coaxial		1									
61	143-933		TP1-6	CONNECTOR, Bulkhead Receptacle		6									
63	280-130	TO-18	Q1-6,8-11	SPACER, Transistor		10									
64	280-173		A15,16, Q7,12,13	SPACER, Integrated Circuit, 8 pin		5									
66	501-712			WASHER, Flat, brass		1									
67	580-169	MD918	Q7,13	TRANSISTOR, Dual		2									
68	586-469	MC1201L	A3,4,12	INTEGRATED CIRCUIT		3									
69	586-476	MC1215L	A1,2,6-8	INTEGRATED CIRCUIT		5									
70	586-477	MC1216L	A9	INTEGRATED CIRCUIT		1									
72	586-488	MC1235L	A11	INTEGRATED CIRCUIT		1									
73	586-483	MC1226L	A5,10	INTEGRATED CIRCUIT		2									
74	586-490	MC1213L	A13,14	INTEGRATED CIRCUIT		2									
75	586-261	LM302	A15,16	INTEGRATED CIRCUIT		2									
76	586-489	MC1204L	A17	INTEGRATED CIRCUIT		1									

X1364711C



SWITCH CONTROL TIMING PRINTED WIRING ASSEMBLY (MODULE 209)						CATALOG NO. X1364714		SHEET 1 OF 2			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364716			SCHEMATIC		REF					
10	018-285			ADHESIVE, Thread Locking		A/R					
11	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
19	501-712			WASHER, Flat, brass, .032 thick		1					
21	013-599		CR1	DIODE		1					
23	020-407		K1	SPACER, Relay		1					
24	020-515		K1	RELAY, DPDT, 26.5V, 1250 ohm		1					
26	037-472		C1-5	CAPACITOR, Tantalum, 4.7μF, 10V, ±10%		5					
28	041-003		R9	RESISTOR, Comp., 100 ohm, 1/2W, 5%		1					
29	041-396		R14-16	RESISTOR, Comp., 220 ohm, 1/4W, 5%		3					
30	041-430		R17-20	RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		4					
31	041-435		R1-4, 25, 26	RESISTOR, Comp., 150 ohm, 1/4W, 5%		6					
32	041-559		R5, 6, 21-24	RESISTOR, Comp., 120 ohm, 1/4W, 5%		6					
33	057-226		R7, 11, 12	RESISTOR, Metal Film, 243 ohm, 1/8W, 1%		3					
34	062-533		R8, 10, 13	RESISTOR, Metal Film, 150 ohm, 1/8W, 1%		3					
38	143-933		TP1-3	CONNECTOR, Bulkhead, RF receptacle		3					
39	143-981		J9-22	CONNECTOR, Jack, printed circuit, closed entry		42					
40	143-989		J8	CONNECTOR, Coaxial		1					
42	586-469	MC1201L	A1, 2, 4-7, 23-26, 28, 32, 34, 35, 38, 39, 41, 45	INTEGRATED CIRCUIT		18					
43	586-473	MC1210L	A21, 27	INTEGRATED CIRCUIT		2					
44	586-476	MC1215L	A29	INTEGRATED CIRCUIT		1					
45	586-483	MC1226L	A31, 33	INTEGRATED CIRCUIT		2					
46	586-487	MC1233L	A30	INTEGRATED CIRCUIT		1					
47	586-489	MC1204L	A3, 17-20, 22, 36, 37	INTEGRATED CIRCUIT		8					
48	586-490	MC1213L	A8-16, 40, 42-44, 46, 47	INTEGRATED CIRCUIT		15					
50	600-161			SLEEVING, TFE, flexible, #22		A/R					

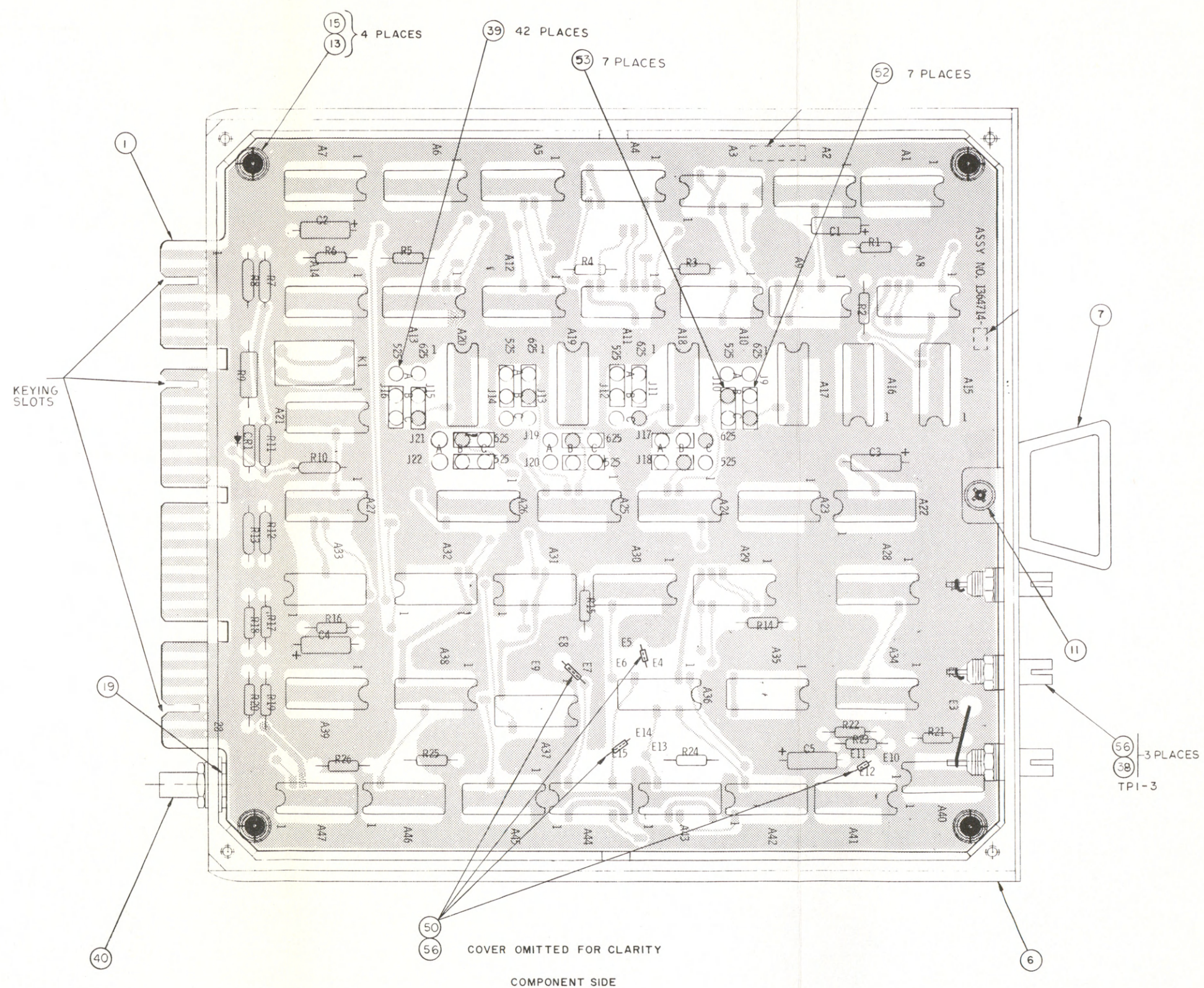
X1364714D

SWITCH CONTROL TIMING PRINTED WIRING ASSEMBLY (MODULE 209)					CATALOG NO. X1364714		SHEET 2 OF 2						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
52	602-012		J9,11,13,15,17,19,21	CONNECTOR, Plug, shorting, red		7							
53	602-013		J10,12,14,16,18,20,22	CONNECTOR, Plug, shorting, blue		7							
56	615-004			WIRE, Bare, solid, 24AWG		A/R							

X1364714D



AMPEX



Switch Control Timing Printed Wiring Assembly  
(Module 209)  
Drawing No. 1364714D



CLOCK & TIME WORD GENERATOR PRINTED WIRING ASSEMBLY					CATALOG NO. 1364717		SHEET 1 OF 2						
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364719			SCHEMATIC		REF							
4	1368188-56			LABEL, Module		1							
5	1368260-01			OVERLAY, Module		1							
6	1363789-01			FRAME, Module		1							
7	1363791-01			HANDLE, Printed Wiring Board		1							
8	1365046-01			COVER, Module		2							
9	1365671-01			COVER, Module									
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1							
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4							
15	501-008			WASHER, Plain, #4		4							
19	501-712			WASHER, Flat, brass, .032 thick		1							
20	501-715			WASHER, Shoulder, nylon		-							
22	013-655	FD600	CR1	DIODE, Silicon		1							
23	014-506		Q1,2	TRANSISTOR		2							
25	017-095	CR55/μ	Y1	CRYSTAL, 24 MHz, ±.005%		1							
26	030-966		C10	CAPACITOR, Ceramic, .01μF, 100V, ±10%		1							
27	034-219		C5	CAPACITOR, Mica, 120PF, 500V, ±1%		1							
28	034-241		C6	CAPACITOR, Mica, 360PF, 500V, ±1%		1							
29	034-330		C7	CAPACITOR, Mica, 750PF, 500V, ±1%		1							
30	055-268		C2	CAPACITOR, Mylar, .022μF, 50V, ±10%		1							
32	055-165		C4	CAPACITOR, Mylar, .001μF, 50V, ±10%		1							
33	037-164		C8	CAPACITOR, Tantalum, 1.0μF, 35V, ±10%		1							
34	037-472		C1,9,12-14	CAPACITOR, Tantalum, 4.7μF, 10V, ±10%		5							
35	037-740		C3,11	CAPACITOR, Tantalum, 33μF, 10V, ±10%		2							
37	041-425		R6,19	RESISTOR, Fixed, 47 ohm, 1/4W, 5%		2							
38	048-620		R10	RESISTOR, Metal Film, 4.75K ohm, 1/4W, 1%		1							
39	048-674		R8	RESISTOR, Metal Film, 2.15K ohm, 1/4W, 1%		1							
40	048-727		R21	RESISTOR, Metal Film, 499 ohm, 1/4W, 1%		1							
41	048-860		R20	RESISTOR, Metal Film, 1.30K ohm, 1/4W, 1%		1							
42	057-882		R9	RESISTOR, Metal Film, 806 ohm, 1/4W, 1%		1							
43	062-256		R22	RESISTOR, Metal Film, 1.27K ohm, 1/4W, 1%		1							
44	062-440		R5	RESISTOR, Metal Film, 316K ohm, 1/4W, 1%		1							
45	062-441		R7	RESISTOR, Metal Film, 280 ohm, 1/4W, 1%		1							
47	139-021		J8	CONNECTOR, Coaxial		1							
48	173-620		E1	TERMINAL, Stud, turret, swage		1							
50	280-130	TO-18	Q1,2	SPACER, Transistor		2							
52	435-122		Y1	BRACKET, Crystal Mounting		1							

X1364717D

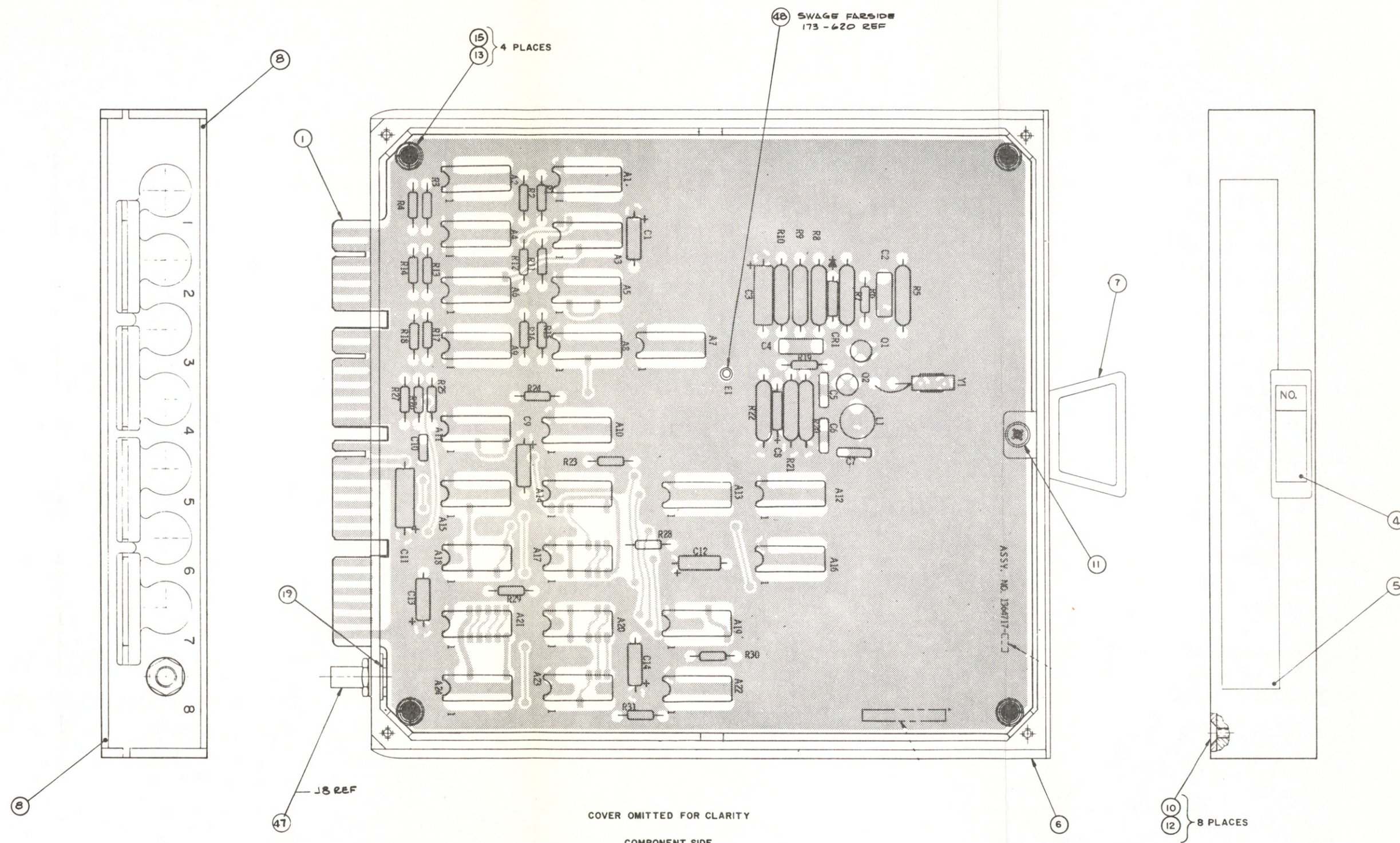


CLOCK & TIME WORD GENERATOR PRINTED WIRING ASSEMBLY						CATALOG NO. 1364717		SHEET 2 OF 2					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
54	460-011		Y1	RIVET, Tubular		2							
56	540-085		L1	INDUCTOR, Variable, 0.47μH		1							
58	586-469	MC1201L	A7,10,13,12,16,22	INTEGRATED CIRCUIT		6							
59	586-490	MC1213L	A3,5,8,11,14,15,17,18,20,21,23,24	INTEGRATED CIRCUIT		12							
60	586-489	MC1204L	A19	INTEGRATED CIRCUIT		1							
61	586-483	MC1226L	A1,2,4,6,9	INTEGRATED CIRCUIT		5							
63	041-430		R1-4,13,14,16-18,25-27	RESISTOR, Fixed, 1.5K ohm, 1/4W, 5%		12							
64	041-435		R29	RESISTOR, Fixed, 150 ohm, 1/4W, 5%		1							
65	041-554		R11,12,15	RESISTOR, Fixed, 51 ohm, 1/4W, 5%		3							
66	041-559		R23,24,28,30,31	RESISTOR, Fixed, 120 ohm, 1/4W, 5%		5							

X1364717D



**AMPEX**



*Clock and Time Word Generator Printed Wiring Assembly*  
Dwg. No. 1364717D

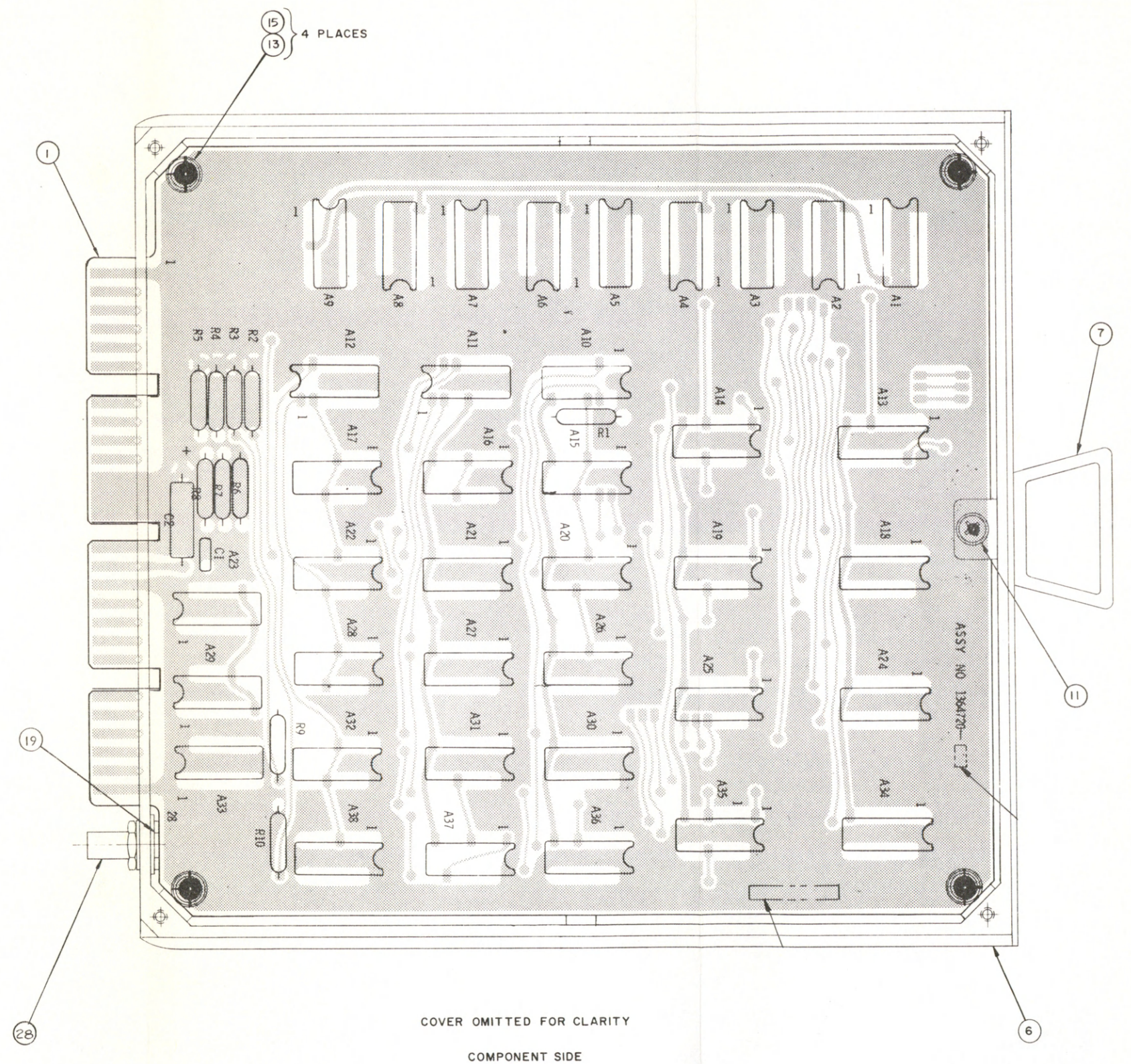


DIGITAL LEAD PRINTED WIRING ASSEMBLY (MODULE 211)					CATALOG NO. X1364720	SHEET 1 OF 1								
						NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
3	1364722			SCHEMATIC		REF								
21	030-966		C1	CAPACITOR, Ceramic, .01μF, 100V, 10%		1								
22	037-740		C2	CAPACITOR, Tantalum, 33μF, 10V, 10%		1								
25	057-226		R1, 7-10	RESISTOR, Metal Film, 243 ohm, 1/8W, 1%		5								
27	062-533		R2-6	RESISTOR, Metal Film, 150 ohm, 1/8W, 1%		5								
28	143-989		J8	CONNECTOR, Coaxial		1								
29	586-469	MC1201L	A10-12	INTEGRATED CIRCUIT		3								
30	586-473	MC1210L	A13, 18, 23, 24, 29, 33, 34	INTEGRATED CIRCUIT		7								
31	586-477	MC1216L	A15, 16, 20, 21, 26, 32, 38	INTEGRATED CIRCUIT		7								
33	586-482	MC1221L	A1-9	INTEGRATED CIRCUIT		9								
34	586-485	MC1230L	A14, 19, 25, 35, 36	INTEGRATED CIRCUIT		5								
35	586-487	MC1233L	A17, 22, 27, 28, 30, 31, 37	INTEGRATED CIRCUIT		7								

X1364720D



AMPEX



Digital Lead Printed Wiring Assembly (Module 211)  
Drawing No. 1364720D

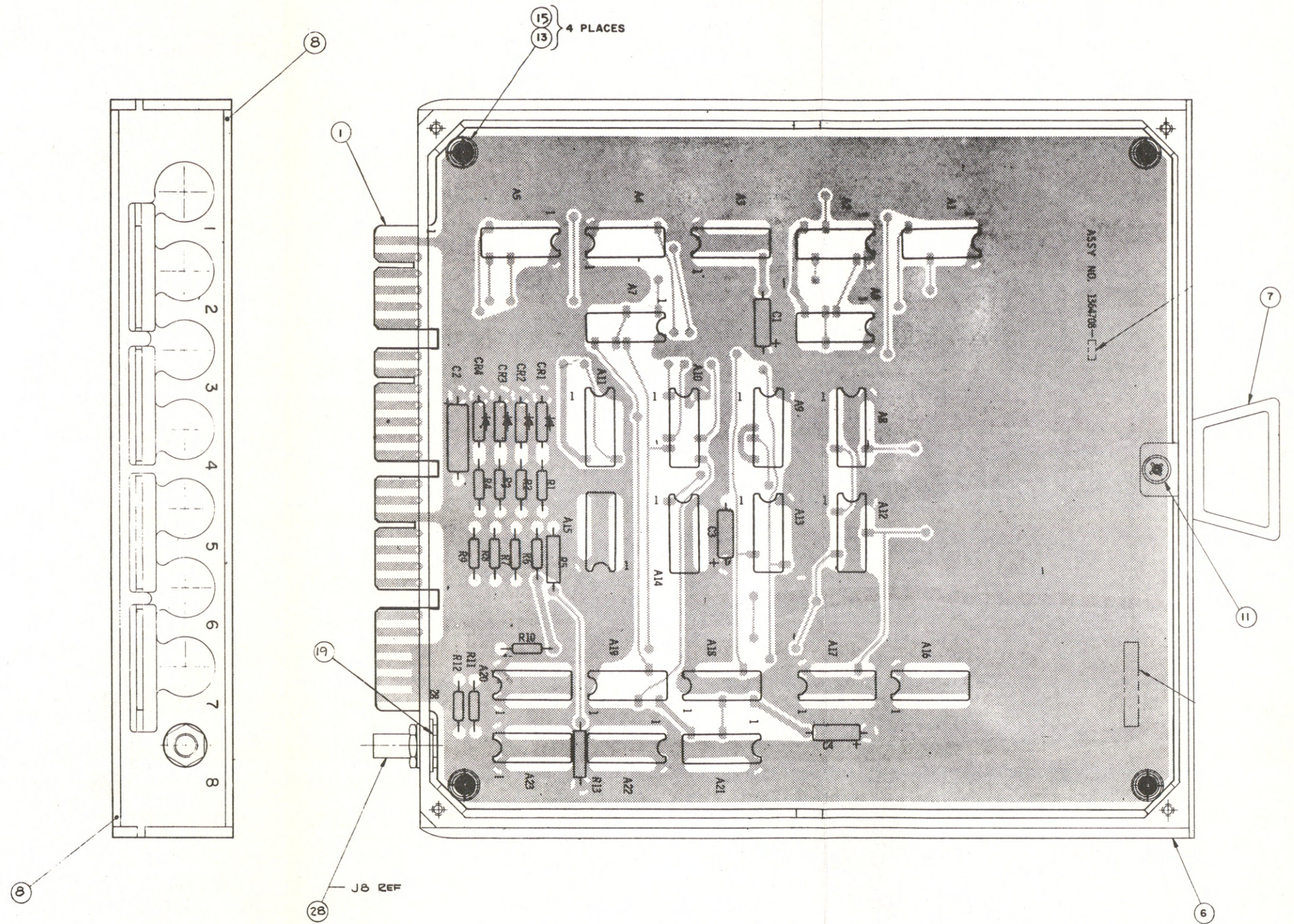


ADDER AND REGISTER 5 PRINTED WIRING ASSEMBLY (MODULE 212)					CATALOG NO. 1364708	SHEET 1 OF 1 NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
3	1364710			SCHEMATIC		REF						
4	1368188-58			LABEL, Module		1						
5	1368260-01			OVERLAY, Module		1						
6	1363789-01			FRAME, Module		1						
7	1363791-01			HANDLE, Printed Wiring Board		1						
8	1365046-01			COVER, Module		2						
10	018-285			ADHESIVE, Thread Locking		A/R						
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1						
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8						
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4						
15	501-008			WASHER, Plain, #4		4						
17	013-599		CR1-4	DIODE		4						
18	501-740			WASHER, Flat, aluminum, .016 thick		-						
19	501-712			WASHER, Flat, brass, .032 thick		1						
20	501-715			WASHER, Shoulder, nylon		-						
21	037-472		C1, 3, 4	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		3						
22	037-740		C2	CAPACITOR, Tantalum, 33μF, 10V, 10%		1						
23	041-410		R1-4	RESISTOR, Fixed, 1K ohm, 1/4W, 5%		4						
24	041-430		R10-12	RESISTOR, Fixed, 1.5K ohm, 1/4W, 5%		3						
25	041-538		R6-9	RESISTOR, Fixed, 6.2K ohm, 1/4W, 5%		4						
26	057-226		R5	RESISTOR, Metal Film, 243 ohm, 1/8W, 1%		1						
27	062-533		R13	RESISTOR, Metal Film, 150 ohm, 1/8W, 1%		1						
28	143-989		J8	CONNECTOR, Coaxial		1						
29	586-469	MC1201L	A22	INTEGRATED CIRCUIT		1						
30	586-473	MC1210L	A2, 4, 6, 7, 10, 12, 14, 15	INTEGRATED CIRCUIT		9						
31	586-477	MC1216L	A16-18, 21	INTEGRATED CIRCUIT		4						
32	586-483	MC1226L	A20, 23	INTEGRATED CIRCUIT		2						
33	586-485	MC1230L	A5	INTEGRATED CIRCUIT		1						
34	586-486	MC1231L	A1	INTEGRATED CIRCUIT		1						
35	586-487	MC1233L	A19	INTEGRATED CIRCUIT		1						
36	586-489	MC1204L	A8, 9, 11, 13	INTEGRATED CIRCUIT		4						

X1364708D

10-577/578



**AMPEX**

*Adder and Register 5 Printed Wiring Assembly  
(Module 212) Dwg. No. 1364708*



FIXED DELAY SWITCH CONTROL PRINTED WIRING ASSEMBLY (MODULE 213)					CATALOG NO. 1366401		SHEET 1 OF 1					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
3	1366402			SCHEMATIC		REF						
5	1368260-01			OVERLAY, Module		1						
6	1363789-01			FRAME, Module		1						
7	1363791-01			HANDLE, Printed Wiring Board		1						
8	1365046-01			COVER, Module		2						
9	1368188-59			LABEL, Handle		1						
10	018-285			ADHESIVE, Thread Locking		A/R						
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1						
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8						
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4						
15	501-008			WASHER, Plain, #4		4						
17	501-712			WASHER, Flat, brass, .032 thick		1						
20	103307-01		R48, 50, 52, 54, 56, 58	STANDOFF, .25 long		12						
21	143-989		J8	CONNECTOR, Coax		1						
22	014-248		Q1-18	TRANSISTOR, CD37		18						
23	037-740		C5	CAPACITOR, Tantalum, 33μF, 10V, 10%		1						
24	037-472		C1-3, 6	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		4						
26	037-991		C4	CAPACITOR, Tantalum, 22μF, 15V, 10%		1						
27	057-226		R26, 27	RESISTOR, Metal Film, 243 ohm, 1/8W, 1%		2						
28	041-010		R31, 34, 37, 40, 43, 46	RESISTOR, Fixed, 2K ohm, 1/2W, 5%		6						
29	041-309		R47, 49, 51, 53, 55, 57	RESISTOR, Fixed, 8.2K ohm, 1/2W, 5%		6						
31	041-430		R1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23	RESISTOR, Fixed, 1.5K ohm, 1/4W, 5%		12						
32	041-586		R48, 50, 52, 54, 56, 58	RESISTOR, Fixed, 330 ohm, 2W, 5%		6						
33	041-735		R2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24	RESISTOR, Fixed, 91 ohm, 1/4W, 5%		12						
34	041-740		R29, 30, 32, 33, 35, 36, 38, 39, 41, 42, 44, 45	RESISTOR, Fixed, 200 ohm, 1/4W, 5%		12						
35	062-533		R25, 28	RESISTOR, Metal Film, 150 ohm, 1/8W, 1%		2						
36	280-130	TO-18	Q1-18	SPACER, Transistor		18						
37	586-469	MC1201L	A4, 12	INTEGRATED CIRCUIT		2						
38	586-473	MC1210L	A5	INTEGRATED CIRCUIT		1						
39	586-477	MC1216L	A1-3, 9-11	INTEGRATED CIRCUIT		6						
41	586-485	MC1230L	A8	INTEGRATED CIRCUIT		1						
42	586-486	MC1231L	A7	INTEGRATED CIRCUIT		1						
43	586-488	MC1235L	A6	INTEGRATED CIRCUIT		1						

X1366401C

10-581/582

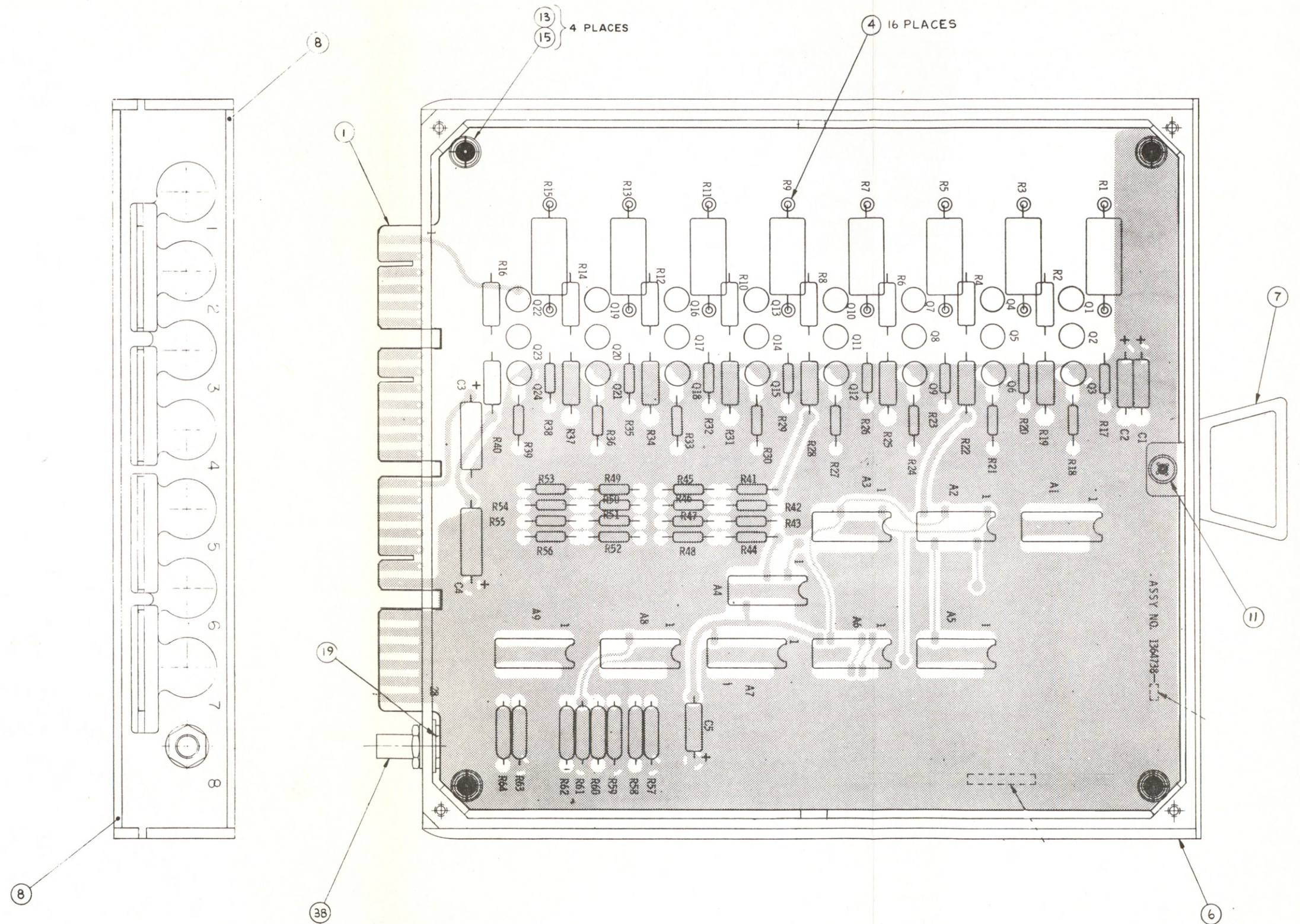
TAPPED DELAY SWITCH CONTROL PRINTED WIRING ASSEMBLY (MODULE 214)					CATALOG NO. 1364738		SHEET 1 OF 1						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364740			SCHEMATIC		REF							
4	13307-01		Ref: R1,3,5,7,9,11,13,15	STANDOFF, .25 Lg		16							
5	1368188-60			LABEL		1							
6	1363789-01			FRAME, Module		1							
7	1363791-01			HANDLE, Printed Wiring Board		1							
8	1365046-01			COVER, Module		2							
9	1365671-01			COVER, Module		-							
10	018-285			ADHESIVE, Thread Locking		A/R							
11	473-325			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .312		1							
12	471-325			SCREW, Cross-Recess, flat head, 4-40 x .188		8							
13	473-324			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .250		4							
14	1368260-01			OVERLAY		1							
15	501-008			WASHER, Plain, #4		4							
19	501-712			WASHER, Flat, brass, .032 thk		1							
23	014-248		Q1-24	TRANSISTOR		24							
25	037-472		C1,2,5	CAPACITOR, Tantalum, 4.7μF,10V,10%		3							
27	037-991		C3	CAPACITOR, Tantalum, 22μF,15V,10%		1							
28	037-740		C4	CAPACITOR, Tantalum, 33μF,10V,10%		1							
30	041-010		R19,22,25,28,31,34,37,40	RESISTOR, Fixed, 2k ohm,1/2W,5%		8							
31	041-309		R2,4,6,8,10,12,14,16	RESISTOR, Fixed, 8.2k ohm,1/2W,5%		8							
33	041-430		R41-44,49-52	RESISTOR, Fixed, 1.5k ohm,1/4W,5%		8							
34	041-586		R1,3,5,7,9,11,13,15	RESISTOR, Fixed, 330 ohm,2W,5%		8							
35	041-735		R45-48,53-56	RESISTOR, Fixed, 91 ohm,1/4W,5%		8							
36	041-740		R17,18,20,21,23,24,26,27	RESISTOR, Fixed, 200 ohm,1/4W,5%		16							
38	139-021		J8	CONNECTOR, Coax		1							
42	280-130		Ref: Q1-24	SPACER, Transistor, TO-18		24							
43	057-226		R58,60,62,64	RESISTOR, Fixed, 243 ohm,1/8W,1%		4							
44	062-533		R57,59,61,63	RESISTOR, Fixed, 150 ohm,1/8W,1%		4							
45	586-469	MC1201L	A4,9	INTEGRATED CIRCUIT		2							
46	586-473	MC1210L	A2,3	INTEGRATED CIRCUIT		2							
50	586-487	MC1233L	A7,8	INTEGRATED CIRCUIT		2							
51	586-488	MC1235L	A1	INTEGRATED CIRCUIT		1							
54	586-489	MC1204L	A5,6	INTEGRATED CIRCUIT		2							

X1364738C

10-583/584



AMPEX



Tapped Delay Switch Control Printed Wiring Assembly  
(Module 214) Dwg. No. 1364738



SYNC FEEDBACK PRINTED WIRING ASSEMBLY (MODULE 216)					CATALOG NO. X1366629		SHEET 1 OF 3						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
3	1366630			SCHEMATIC		REF							
9	1366817-01		A7	CLIP, Ground, transistor		1							
11	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1							
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4							
15	501-008			WASHER, Plain, #4		4							
19	501-712			WASHER, Flat, brass, .032 thick		1							
22	013-257		VR1	DIODE, 6.2V, ±5%		1							
23	013-599		CR1,6-21	DIODE		17							
24	013-655	FD600	CR2-5	DIODE		4							
25	013-838		A7	DIODE,Assembly, matched quad		1							
26	014-248		Q6,14,15	TRANSISTOR		3							
27	014-505		Q2,3,5,8,9,11	TRANSISTOR		6							
28	014-506		Q1,7,10,12	TRANSISTOR		4							
29	014-697		Q4	TRANSISTOR, Dual		1							
30	580-284	2N5229	Q13	TRANSISTOR		1							
32	020-389		K1,2	RELAY, Form A		2							
33	030-963		C9-11,16,20,23,23,33	CAPACITOR, Ceramic, .1μF, 100V, 10%		8							
34	033-357		C27	CAPACITOR, Polycarbonate, .33μF, 100V, 1%		1							
35	034-180		C17,18	CAPACITOR, Mica, 39PF, 500V, 5%		2							
36	034-208		C7,13,14	CAPACITOR, Mica, 30PF, 500V, 5%		3							
37	034-252		C30	CAPACITOR, Mica, 82PF, 500V, 1%		1							
38	034-297		C29	CAPACITOR, Mica, 180PF, 500V, 1%		1							
39	034-718		C19	CAPACITOR, Mica, 510PF, 500V, 5%		1							
40	034-928		C4	CAPACITOR, Mica, 620PF, 500V, 5%		1							
41	034-940		C31,32	CAPACITOR, Mica, 82PF, 500V, 5%		2							
42	056-178		C5	CAPACITOR, Mica, 10000PF, 100V, 1%		1							
44	037-246		C3	CAPACITOR, Tantalum, 180μF, 6V, 10%		1							
45	037-726		C1,2,6,8,12,21,28	CAPACITOR, Tantalum, 3.3μF, 15V, 10%		7							
46	037-740		C26	CAPACITOR, Tantalum, 33μF, 10V, 10%		1							
47	037-814		C15	CAPACITOR, Tantalum, N. P., 25μF, 6V, 20%		1							
48	037-991		C24,25	CAPACITOR, Tantalum, 22μF, 15V, 10%		2							
51	041-003		R26,54	RESISTOR, Comp., 100 ohm, 1/2W, 5%		2							
52	041-393		R47,51	RESISTOR, Comp., 1 megohm,1/4W,5%		2							
53	041-396		R5,21	RESISTOR, Comp., 220 ohm, 1/4W, 5%		2							
54	041-408		R60	RESISTOR, Comp., 10K ohm, 1/4W, 5%		1							
55	041-412		R55,64,82	RESISTOR, Comp., 4.7K ohm, 1/4W, 5%		3							
56	041-414		R23	RESISTOR, Comp., 2.2K ohm, 1/4W, 5%		1							
57	041-425		R10,11	RESISTOR, Comp., 47 ohm, 1/4W, 5%		2							
58	041-430		R14,74	RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2							
59	041-436		R52	RESISTOR, Comp., 18K ohm, 1/4W, 5%		1							
60	041-440		R65,71,86,88	RESISTOR, Comp., 1.2K ohm, 1/4W, 5%		4							

X1366629G



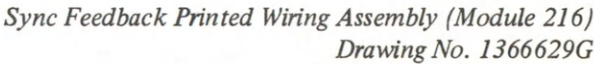
SYNC FEEDBACK PRINTED WIRING ASSEMBLY (MODULE 216)					CATALOG NO. X1366629		SHEET 2 OF 3						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
61	041-496		R62	RESISTOR, Comp., 10 ohm, 1/4W, 5%		1							
62	041-504		R53	RESISTOR, Comp., 510 ohm, 1/4W, 5%		1							
63	041-505		R24	RESISTOR, Comp., 620 ohm, 1/4W, 5%		1							
64	041-508		R89	RESISTOR, Comp., 20K ohm, 1/4W, 5%		1							
65	041-561		R34	RESISTOR, Comp., 5.1K ohm, 1/4W, 5%		1							
66	041-568		R46,50	RESISTOR, Comp., 4.7 megohm,1/4W,5%		2							
67	041-570		R56	RESISTOR, Comp., 2.4K ohm, 1/4W, 5%		1							
68	041-574		R61	RESISTOR, Comp., 110K ohm, 1/4W, 5%		1							
69	041-699		R72	RESISTOR, Comp., 5.1 ohm, 1/4W, 5%		1							
70	041-735		R42	RESISTOR, Comp., 91 ohm, 1/4W, 5%		1							
71	041-758		R18	RESISTOR, Comp., 200K ohm, 1/4W, 5%		1							
72	049-339		R73	RESISTOR, Comp., 3.9 ohm, 1/4W, 5%		1							
74	044-439		R2	RESISTOR, Variable, wirewound, 2K ohm, 1W, 5%		1							
76	042-475		R79	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1%		1							
77	042-476		R27,29	RESISTOR, Metal Film, 2.21K ohm, 1/4W, 1%		3							
78	048-257		R75,83	RESISTOR, Metal Film, 3.01K ohm, 1/4W, 1%		2							
79	048-503		R3	RESISTOR, Metal Film, 732 ohm, 1/4W, 1%		1							
80	048-615		R67	RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1							
81	048-618		R45,49	RESISTOR, Metal Film, 2K ohm, 1/4W, 1%		2							
82	048-625		R15,87	RESISTOR, Metal Film, 150 ohm, 1/4W, 1%		2							
83	048-655		R20	RESISTOR, Metal Film, 2.37K ohm, 1/4W, 1%		1							
84	048-670		R9	RESISTOR, Metal Film, 237 ohm, 1/4W, 1%		1							
85	048-770		R43,69	RESISTOR, Metal Film, 3.09K ohm, 1/4W, 1%		2							
86	048-820		R68	RESISTOR, Metal Film, 4.02K ohm, 1/4W, 1%		1							
87	057-042		R22,30-33	RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		5							
88	057-375		R1	RESISTOR, Metal Film, 4.64K ohm, 1/4W, 1%		1							
89	057-382		R38,58	RESISTOR, Metal Film, 11.8K ohm, 1/4W, 1%		2							
90	057-562		R6	RESISTOR, Metal Film, 806 ohm, 1/2W, 1%		1							
91	048-761		R63	RESISTOR, Metal Film, 2.43K ohm, 1/4W, 1%		1							
92	057-793		R76,84	RESISTOR, Metal Film, 2.1K ohm, 1/4W, 1%		2							
93	057-795		R35,39	RESISTOR, Metal Film, 3.16K ohm, 1/4W, 1%		2							
94	057-828		R80,81	RESISTOR, Metal Film, 1.05K ohm, 1/4W, 1%		2							
95	057-910		R8	RESISTOR, Metal Film, 549 ohm, 1/4W, 1%		1							
96	057-977		R4	RESISTOR, Metal Film, 1.18K ohm, 1/4W, 1%		1							

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SYNC FEEDBACK PRINTED WIRING ASSEMBLY (MODULE 216)					CATALOG NO. X1366629G	SHEET 3 OF 3								
					NHA 1366053									
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-02								
97	057-979		R59	RESISTOR, Metal Film, 147 ohm, 1/4W, 1%		1								
98	057-982		R70	RESISTOR, Metal Film, 4.12K ohm, 1/4W, 1%		1								
99	062-221		R7	RESISTOR, Metal Film, 1.54K ohm, 1/2W, 1%		1								
100	062-252		R57	RESISTOR, Metal Film, 143 ohm, 1/4W, 1%		1								
101	062-259		R25,28	RESISTOR, Metal Film, 4.42K ohm, 1/4W, 1%		2								
102	062-260		R66	RESISTOR, Metal Film, 5.11K ohm, 1/4W, 1%		1								
103	062-285		R13,78	RESISTOR, Metal Film, 243 ohm, 1/4W, 1%		2								
104	062-296		R17	RESISTOR, Metal Film, 23.7K ohm, 1/4W, 1%		1								
105	062-355		R44,48	RESISTOR, Metal Film, 2.8K ohm, 1/4W, 1%		2								
106	062-368		R77,85	RESISTOR, Metal Film, 5.23K ohm, 1/4W, 1%		2								
107	062-441		R37,41	RESISTOR, Metal Film, 280 ohm, 1/4W, 1%		2								
108	062-579		R12	RESISTOR, Metal Film, 35.7K ohm, 1/4W, 1%		1								
109	062-646		R16	RESISTOR, Metal Film, 13K ohm, 1/4W, 1%		1								
110	062-655		R19	RESISTOR, Metal Film, 2.43K ohm, 1/2W, 1/2%		1								
111	062-688		R36,40	RESISTOR, Metal Film, 348 ohm, 1/4W, 1%		2								
114	143-933		TP1	CONNECTOR, Bulkhead, R. F., receptacle		1								
115	143-989		J8	CONNECTOR, Coaxial		1								
116	173-620		E1,2,4,5	TERMINAL LUG		4								
118	280-130		Q1-3,5-15	SPACER, Transistor		14								
119	280-173		A1,4-6,9,10,12, Q4	SPACER, Integrated Circuit, 8 pin		8								
120	280-174		A8	SPACER, Integrated Circuit, 10 pin		1								
121	280-998		A7	SPACER, Transistor		1								
124	586-264	μA741	A1,6	INTEGRATED CIRCUIT		2								
125	586-469	MC1201L	A13	INTEGRATED CIRCUIT		1								
126	586-473	MC1210L	A14,18	INTEGRATED CIRCUIT		2								
127	586-477	MC1216L	A16	INTEGRATED CIRCUIT		1								
128	586-483	MC1226L	A3	INTEGRATED CIRCUIT		1								
129	586-489	MC1204L	A11,15,17	INTEGRATED CIRCUIT		3								
130	586-490	MC1213L	A2	INTEGRATED CIRCUIT		1								
131	586-532	LM202	A12	INTEGRATED CIRCUIT		1								
132	586-559	LM201AH	A5,9,10	INTEGRATED CIRCUIT		3								
133	586-560	LM206H	A4	INTEGRATED CIRCUIT		1								
134	586-646	MC1520G	A8	INTEGRATED CIRCUIT		1								
137	615-004			WIRE, Bare, solid, 24 AWG		A/R								

X1366629G







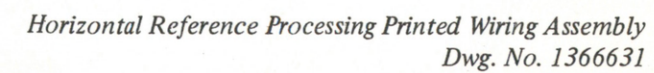
HORIZONTAL REFERENCE PROCESSING PRINTED WIRING ASSEMBLY						CATALOG NO.	1366631	SHEET 1 OF 2					
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
3	1366632	FD600		SCHEMATIC		REF							
5	1368273-01			OVERLAY MODULE		1							
6	1363789-01			FRAME, Module		1							
7	1363791-01			HANDLE, Printed Wiring Board		1							
8	1365046-01			COVER, Module		2							
9	1368188-63			LABEL, Handle		1							
10	013-332		VR1	DIODE, 4.7V, 400MW, 5%		1							
11	013-599		CR5	DIODE		1							
12	013-655		CR8	DIODE		1							
13	013-677		CR1-3, 6, 7	DIODE		5							
16	014-247		Q3	TRANSISTOR		1							
17	014-248		Q4	TRANSISTOR		1							
18	014-387		Q1	TRANSISTOR		1							
19	014-505		Q10	TRANSISTOR		1							
20	014-506		Q5, 6	TRANSISTOR		2							
21	014-581		Q7-9	TRANSISTOR		3							
25	034-212		C9	CAPACITOR, Mica, 330pF, 500V, 5%		1							
26	034-455		C18	CAPACITOR, Mica, 4300pF, 500V, 5%		1							
28	035-893		C14	CAPACITOR, Mylar, .1μF, 50V, 5%		1							
29	037-109		C15	CAPACITOR, Tantalum, 10μF, 20V, 10%		1							
30	037-164		C22	CAPACITOR, Tantalum, 1μF, 35V, 10%		1							
31	037-472	C6, 7, 12, 19	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		4								
32	037-726	C3	CAPACITOR, Tantalum, 3.3μF, 15V, 10%		1								
33	037-728	C16, 20	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		2								
34	037-740	C11	CAPACITOR, Tantalum, 33μF, 10V, 10%		1								
35	037-746	C1, 2	CAPACITOR, Tantalum, 47μF, 20V, 10%		2								
36	037-991	C5, 10, 17	CAPACITOR, Tantalum, 22μF, 15V, 10%		3								
38	038-273	MV1666	CR4	DIODE, Capacitive, voltage variable		1							
40	041-012		R13	RESISTOR, Fixed, 4.3k ohm, 1/2W, 5%		1							
41	041-396		R22	RESISTOR, Fixed, 220 ohm, 1/4W, 5%		1							
42	041-410		R6, 48	RESISTOR, Fixed, 1k ohm, 1/4W, 5%		2							
43	041-430		R23, 25-27, 29, 30	RESISTOR, Fixed, 1.5k ohm, 1/4W, 5%		6							
44	041-435		R24	RESISTOR, Fixed, 150 ohm, 1/4W, 5%		1							
45	041-440		R5	RESISTOR, Fixed, 1.2k ohm, 1/4W, 5%		1							
46	041-504		R16	RESISTOR, Fixed, 510 ohm, 1/4W, 5%		1							
57	041-507		R7, 51	RESISTOR, Fixed, 5.6k ohm, 1/4W, 5%		2							
48	041-550		R49	RESISTOR, Fixed, 3k ohm, 1/4W, 5%		1							
49	041-560		R21	RESISTOR, Fixed, 2k ohm, 1/4W, 5%		1							
50	041-569		R44, 47	RESISTOR, Fixed, 300 ohm, 1/4W, 5%		2							
51	041-735		R12, 28	RESISTOR, Fixed, 91 ohm, 1/4W, 5%		2							
52	041-742		R31	RESISTOR, Fixed, 360 ohm, 1/4W, 5%		1							
54	042-482		R8, 9	RESISTOR, Fixed, 47.5k ohm, 1/4W, 1%		2							
55	042-485		R36	RESISTOR, Fixed, 3.32k ohm, 1/4W, 1%		1							
56	044-198		R37	RESISTOR, Variable, wirewound, 1k ohm, 1W, 5%		1							
57	048-618		R1, 2, 4	RESISTOR, Fixed, 2k ohm, 1/4W, 1%		3							
58	048-648		R18	RESISTOR, Fixed, 3.83k ohm, 1/4W, 1%		1							
59	048-655		R50	RESISTOR, Fixed, 2.37k ohm, 1/4W, 1%		1							
60	048-670		R43	RESISTOR, Fixed, 237 ohm, 1/4W, 1%		1							
61	048-727		R35	RESISTOR, Fixed, 499 ohm, 1/4W, 1%		1							



HORIZONTAL REFERENCE PROCESSING PRINTED WIRING ASSEMBLY						CATALOG NO.	1366631	SHEET 2 OF 2					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
62	048-743		R40	RESISTOR, Fixed, 1.1k ohm,1/4W,1%		1							
63	055-268		C8	CAPACITOR, Mylar, .022μF,50V,10%		1							
64	055-533		C4	CAPACITOR, Mylar, .15μF,50V,10%		1							
65	056-216		C13	CAPACITOR, Mica, 500pF,500V,1%		1							
68	057-042		R17,39	RESISTOR, Fixed, 10k ohm,1/4W,1%		2							
69	057-382		R38	RESISTOR, Fixed, 11.8k ohm,1/4W,1%		1							
70	057-453		R11,33	RESISTOR, Fixed, 4.99k ohm,1/4W,1%		2							
71	057-681		R15	RESISTOR, Fixed, 1.43k ohm,1/4W,1%		1							
72	057-759		R3	RESISTOR, Fixed, 3.57k ohm,1/4W,1%		1							
73	057-791		R19	RESISTOR, Fixed, 1.74k ohm,1/4W,1%		1							
74	057-796		R10	RESISTOR, Fixed, 5.9k ohm,1/4W,1%		1							
75	057-815		R45,46	RESISTOR, Fixed, 1.54k ohm,1/4W,1%		2							
76	057-817		R34	RESISTOR, Fixed, 8.25k ohm,1/4W,1%		1							
77	057-827		R20,42	RESISTOR, Fixed, 1.87k ohm,1/4W,1%		2							
78	057-830		R14	RESISTOR, Fixed, 3.24k ohm,1/4W,1%		1							
79	057-910		R32	RESISTOR, Fixed, 549 ohm,1/4W,1%		1							
81	062-485		R41	RESISTOR, Fixed, 11.3k ohm,1/4W,1%		1							
83	143-933		TP1-3	CONNECTOR, Bulkhead, rf receptacle		3							
84	143-989		J8	CONNECTOR, Coax		1							
86	173-620		REF:E3,4	TERMINAL LUG		2							
88	280-130	TO-18	Q1,4,5-9	SPACER, Transistor,		7							
89	280-173		Q2,A16	SPACER, Integrated Circuit, 8 pin		2							
90	280-998	TO-5	Q3	SPACER, Transistor,		1							
92	302-395			STRAP, Cable		1							
94	471-325			SCREW, Cross-Recess, flat head, 4-40 x .188		8							
95	473-324			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .250		4							
96	473-325			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .312		1							
97	501-008			WASHER, Plain, #4		4							
98	541-082		L1	INDUCTOR, Variable, 680μH,20%		1							
99	580-169	MD2369	Q2	TRANSISTOR		1							
101	586-469	MC1201L	A2	INTEGRATED CIRCUIT		1							
102	586-473	MC1210L	A9	INTEGRATED CIRCUIT		1							
103	586-483	MC1226L	A5,10,14	INTEGRATED CIRCUIT		3							
104	586-488	MC1235L	A1,15	INTEGRATED CIRCUIT		2							
105	586-490	MC1213L	A3,4,6-8,11-13	INTEGRATED CIRCUIT		8							
106	586-560	LM206H	A16	INTEGRATED CIRCUIT		1							

X1366631E

10-590





BURST STRIPPER AND OUTPUT SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 218)							CATALOG NO. X1364693		SHEET 1 OF 5			
									NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
3	1364695			SCHEMATIC		REF						
10	018-285			ADHESIVE, Thread locking		A/R						
11	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1						
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8						
13	473-324			SCREW, Assembled Washer, pan head, 4-40 x .250, cross-recessed		4						
14	103307-02		Q1	STANDOFF, .125 Long		2						
15	501-008			WASHER, Plain, #4		4						
16	1368188-64			LABEL		1						
17	1368274			OVERLAY		1						
18	034-455		C30	CAPACITOR, Mica, 4300PF, 500V, 5%		1						
19	501-712			WASHER, Flat, brass, .032 thick		1						
21	580-265	2N4937	Q30	TRANSISTOR, Dual		1						
22	014-364	2N3072	Q11	TRANSISTOR		1						
23	013-166		VR1	DIODE, Zener, 3.3V		1						
24	013-655	FD600	CR4-6, 8	DIODE		4						
25	013-677		CR1, 3, 9, 10	DIODE		4						
26	013-678		CR7	DIODE		1						
27	013-838	FSA1529	A2, 6	DIODE ASSEMBLY, Quad		2						
28	013-985	1N660	CR2	DIODE		1						
29	014-247		Q1, 8	TRANSISTOR		2						
30	014-248		Q5, 10, 14, 16, 18, 21, 31	TRANSISTOR		7						
31	014-383		Q6	TRANSISTOR		1						
32	014-387		Q4, 12, 32	TRANSISTOR		3						
33	014-506		Q15	TRANSISTOR		1						
34	014-581		Q2, 3, 7, 9, 17, 22, 23	TRANSISTOR		7						
35	014-628		Q29	TRANSISTOR, Dual		1						
36	014-712		Q26, 28-30	PAD, Transistor Mounting		4						
37	014-730	2N3502	Q25	TRANSISTOR		1						
38	014-851	MD2369B	Q26	TRANSISTOR, Dual		1						
39	014-853	MD2905	Q28	TRANSISTOR, Dual		1						
40	014-505	2N3251	Q13, 19, 20, 24	TRANSISTOR		4						
41	020-107		K1	PAD, Relay Mounting		1						
42	020-515		K1	RELAY		1						
43	034-180		C35	CAPACITOR, Mica, 39PF, 500V, 5%		1						
44	034-199		C34	CAPACITOR, Mica, 300PF, 500V, 5%		1						
45	034-287		C19	CAPACITOR, Mica, 300PF, 500V, 1%		1						
46	034-345		C3	CAPACITOR, Mica, 3PF, 500V, ±.5PF		1						
48	034-219		C24	CAPACITOR, Mica, 120PF, 500V, 1%		1						
49	034-309		C10	CAPACITOR, Mica, 560PF, 300V, 1%		1						
50	034-747		C46	CAPACITOR, Mica, 3600PF, 500V, 5%		1						
51	034-759		C43	CAPACITOR, Mica, 15PF, 500V, ±.5PF		1						
52	034-918		C51	CAPACITOR, Mica, 68PF, 500V, 1%		1						

X1364693B

BURST STRIPPER AND OUTPUT SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 218)				CATALOG NO. 1364693		SHEET 2 OF 5						
						NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
53	034-320		C2	CAPACITOR, Mica, 750PF, 300V, 5%		1						
54	034-386		C21	CAPACITOR, Mica, 910PF, 100V, 5%		1						
55	037-164		C15,17,47	CAPACITOR, Tantalum, 1μF, 35V, 10%		3						
56	037-246		C52	CAPACITOR, Tantalum, 180μF, 6V, 10%		1						
57	037-367		C4,6,11,16,23,33	CAPACITOR, Tantalum, 2.2μF, 20V, 10%		6						
58	037-472		C7,9,14,28,37,39,42,48,49,54,55	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		11						
59	037-740		C12	CAPACITOR, Tantalum, 33μF, 10V, 10%		1						
60	037-745		C25,31	CAPACITOR, Tantalum, 47μF, 6V, 10%		2						
61	037-746		C1	CAPACITOR, Tantalum, 47μF, 20V, 10%		1						
62	037-749		C40	CAPACITOR, Tantalum, 68μF, 15V, 10%		1						
63	037-753		C26	CAPACITOR, Tantalum, 150μF, 6V, 10%		1						
64	037-985		C22	CAPACITOR, Tantalum, 15μF, 20V, 10%		1						
65	037-991		C8,18,20,41,50	CAPACITOR, Tantalum, 22μF, 15V, 10%		5						
66	041-003		R7,34,42,53,58,65,112	RESISTOR, Fixed, 100 ohm, 1/2W, 5%		7						
67	041-010		R2,27,115	RESISTOR, Fixed, 2K ohm, 1/2W, 5%		3						
68	041-013		R1,71,97	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		3						
69	041-014		R3,13,16,62,66,81,113	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		7						
70	041-015		R43	RESISTOR, Fixed, 27K ohm, 1/2W, 5%		1						
71	041-016		R114	RESISTOR, Fixed, 22K ohm, 1/2W, 5%		1						
72	041-420		R94	RESISTOR, Fixed, 12K ohm, 1/2W, 5%		1						
73	041-020		R29,64,95	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		3						
74	041-239		R54,60	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		2						
75	041-245		R4,11	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		2						
76	041-278		R51	RESISTOR, Fixed, 2.7K ohm, 1/2W, 5%		1						
77	041-283		R14	RESISTOR, Fixed, 47 ohm, 1/2W, 5%		1						
78	041-290		R17,40	RESISTOR, Fixed, 91 ohm, 1/2W, 5%		2						
79	041-303		R73,96	RESISTOR, Fixed, 3.9K ohm, 1/2W, 5%		2						
80	041-309		R49	RESISTOR, Fixed, 8.2K ohm, 1/2W, 5%		1						
81	041-316		R48,86	RESISTOR, Fixed, 2.4K ohm, 1/2W, 5%		2						
82	041-329		R24,52,68	RESISTOR, Fixed, 330 ohm, 1/2W, 5%		3						
83	041-334		R63	RESISTOR, Fixed, 200 ohm, 1/2W, 5%		1						
84	041-343		R80	RESISTOR, Fixed, 680 ohm, 1/2W, 5%		1						
85	041-345		R74	RESISTOR, Fixed, 51 ohm, 1/2W, 5%		1						
86	041-361		R57	RESISTOR, Fixed, 7.5K ohm, 1/2W, 5%		1						
87	041-743		R101	RESISTOR, Fixed, 430 ohm, 1/4W, 5%		1						
88	041-384		R26	RESISTOR, Fixed, 68 ohm, 1/2W, 5%		1						
89	041-421		R12,98	RESISTOR, Fixed, 22 ohm, 1/2W, 5%		2						
90	041-435		R84,85	RESISTOR, Fixed, 150 ohm, 1/4W, 5%		2						
91	041-455		R44,75	RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		2						
92	041-457		R10	RESISTOR, Fixed, 390 ohm, 1W, 5%		1						
93	041-473		R6,33	RESISTOR, Fixed, 240 ohm, 1/2W, 5%		2						
94	041-475		R46,47	RESISTOR, Fixed, 3K ohm, 1/2W, 5%		2						
95	041-478		R45,67	RESISTOR, Fixed, 1.1K ohm, 1/2W, 5%		2						

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BURST STRIPPER AND OUTPUT SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 218)						CATALOG NO. 1364693		SHEET 3 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
97	041-500		R15	RESISTOR, Fixed, 510 ohm, 1W, 5%		1							
98	041-522		R5,32,41,79	RESISTOR, Fixed, 910 ohm, 1/2W, 5%		4							
99	041-526		R50	RESISTOR, Fixed, 1.6K ohm, 1/2W, 5%		1							
100	041-652		R90, 108	RESISTOR, Fixed, 27 ohm, 1/4W, 5%		2							
101	041-890		R9	RESISTOR, Fixed, 4.3 megohm, 1/2W, 5%		1							
102	062-358		R100	RESISTOR, Metal Film, 2.43K ohm, 1/8W, 1%		1							
103	042-475		R8,35	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1%		2							
104	042-478		R37	RESISTOR, Metal Film, 200 ohm, 1/4W, 1%		1							
105	048-865		R119	RESISTOR, Metal Film, 243 ohm, 1/2W, 1%		1							
106	062-541		R118	RESISTOR, Metal Film, 357 ohm, 1/4W, 1%		1							
107	057-913		R59	RESISTOR, Metal Film, 2.55K ohm, 1/4W, 1%		1							
108	048-825		R120	RESISTOR, Metal Film, 150 ohm, 1/4W, 1%		1							
109	057-517		R61	RESISTOR, Metal Film, 2.26K ohm, 1/4W, 1%		1							
110	048-860		R36	RESISTOR, Metal Film, 1.3K ohm, 1/4W, 1%		1							
111	051-585		L3	INDUCTOR, Fixed, 48μH, 2-1/2%		1							
112	051-588		L2	INDUCTOR, Fixed, 100μH, 2-1/2%		1							
113	056-164		C32,36	CAPACITOR, Mica, 22PF, 500V, ±.5PF		2							
114	062-430		R99	RESISTOR, Metal Film, 243K ohm, 1/8W, 1%		1							
115	057-384		R110	RESISTOR, Metal Film, 2.67K ohm, 1/4W, 1%		1							
116	057-386		R109,111	RESISTOR, Metal Film, 30.1K ohm, 1/4W, 1%		2							
117	057-453		R87	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		1							
118	057-789		R39,56	RESISTOR, Metal Film, 402 ohm, 1/4W, 1%		2							
119	057-956		R103,105	RESISTOR, Metal Film, 1.07K ohm, 1/4W, 1%		2							
120	057-980		R78,107	RESISTOR, Metal Film, 2.05K ohm, 1/4W, 1%		2							
121	062-511		R76	RESISTOR, Metal Film, 549 ohm, 1/8W, 1%		1							
122	062-661		R82	RESISTOR, Metal Film, 237 ohm, 1/8W, 1%		1							
123	139-021			CONNECTOR, Coaxial		1							
124	173-620		E1-33	TERMINAL		33							
125	280-130		Q2-7,9,10,12,14-19,21-24,31,32	PAD, Transistor Mounting		21							
126	280-173		A5	SPACER, Integrated Circuit		1							
127	280-998		Q1,8,11,25,A2,6	PAD, Transistor Mounting		6							
128	143-933		TP1	CONNECTOR, Bulkhead, receptacle		1							

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BURST STRIPPER AND OUTPUT SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 218)							CATALOG NO. 1364693		SHEET 4 OF 5				
									NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
129	143-981		J9A, B, C	CONNECTOR, Jack, closed entry		3							
130	602-012		P9	PLUG, Shorting, red		1							
131	616-568			CABLE, Low-C, 93 ohm		A/R							
132	932-035		Q1, 13, 20, 27, 33	BEADS, Ferrite		6							
133	540-015		L1	INDUCTOR, Fixed, 1000μH, 5%		1							
134	540-150		L4	INDUCTOR, Fixed, 68 μH, 2-1/2%		1							
135	541-987		L5	INDUCTOR, Fixed, 180μH, 5%		1							
136	580-169	MD918	Q27	TRANSISTOR, Dual		1							
137	586-488	MC1235L	A7	INTEGRATED CIRCUIT		1							
138	580-199	MD5000	Q33	TRANSISTOR, Dual		1							
139	586-140	9962	A1	INTEGRATED CIRCUIT		1							
140	586-309	F9601	A3	INTEGRATED CIRCUIT		1							
141	586-483	MC1226	A4	INTEGRATED CIRCUIT		1							
142	586-560	LM206H	A5	INTEGRATED CIRCUIT		1							
143	172-225		TP1	SOLDER LUG		1							
144	1366817		A2, 6	SPRING, Ground Clip		2							
145	1380098-01		T1	TRANSFORMER, Pulse		1							
146	034-931		C5	CAPACITOR, Mica, 560PF, 300V, 5%		1							
147	034-177		C45	CAPACITOR, Mica, 100PF, 500V, 5%		1							
148	037-728		C27	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		1							
149	035-751		C38	CAPACITOR, Mylar, .1μF, 50V, 5%		1							
150	064-004		C44, 53	CAPACITOR, Ceramic, .1μF, 100V, 10%		2							
151	057-196		R104, 108	RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		2							
152	041-529		R31	RESISTOR, Comp., 20K ohm, 1/2W, 5%		1							
153	041-653		R22	RESISTOR, Comp., 39 ohm, 1/4W, 5%		1							
154	041-502		R38	RESISTOR, Comp., 240 ohm, 1/4W, 5%		1							
155	041-531		R69	RESISTOR, Comp., 750 ohm, 1/4W, 5%		1							
156	041-571		R77, 83	RESISTOR, Comp., 3.6K ohm, 1/4W, 5%		2							
157	041-419		R91	RESISTOR, Comp., 100 ohm, 1/4W, 5%		1							
158	041-440		R30	RESISTOR, Comp., 1.2K ohm, 1/4W, 5%		1							
159	048-655		R88	RESISTOR, Metal Film, 2.37K ohm, 1/4W, 1%		1							
160	057-914		R19	RESISTOR, Metal Film, 2.87 ohm, 1/4W, 1%		1							
161	057-795		R18	RESISTOR, Metal Film, 3.16K ohm, 1/4W, 1%		1							
162	057-375		R102	RESISTOR, Metal Film, 4.64K ohm, 1/4W, 1%		1							
163	062-764		R28	RESISTOR, Metal Film, 9.53K ohm, 1/8W, 1%		1							
164	062-765		R20	RESISTOR, Metal Film, 3.09K ohm, 1/8W, 1%		1							
165	062-154		R21	RESISTOR, Metal Film, 715 ohm, 1/8W, 1%		1							
166	059-352		R70, 72, 92, 93	RESISTOR, Variable, 50K ohm, 1W, 5%		4							
167	034-921		C29	CAPACITOR, Mica, 1300PF, 500V, 5%		1							
168	030-966		C13	CAPACITOR, Ceramic, .01μF, 100V, 10%		1							
169	041-561		R23	RESISTOR, Comp., 5.1K ohm, 1/4W, 5%		1							

X1364693B

10-594A

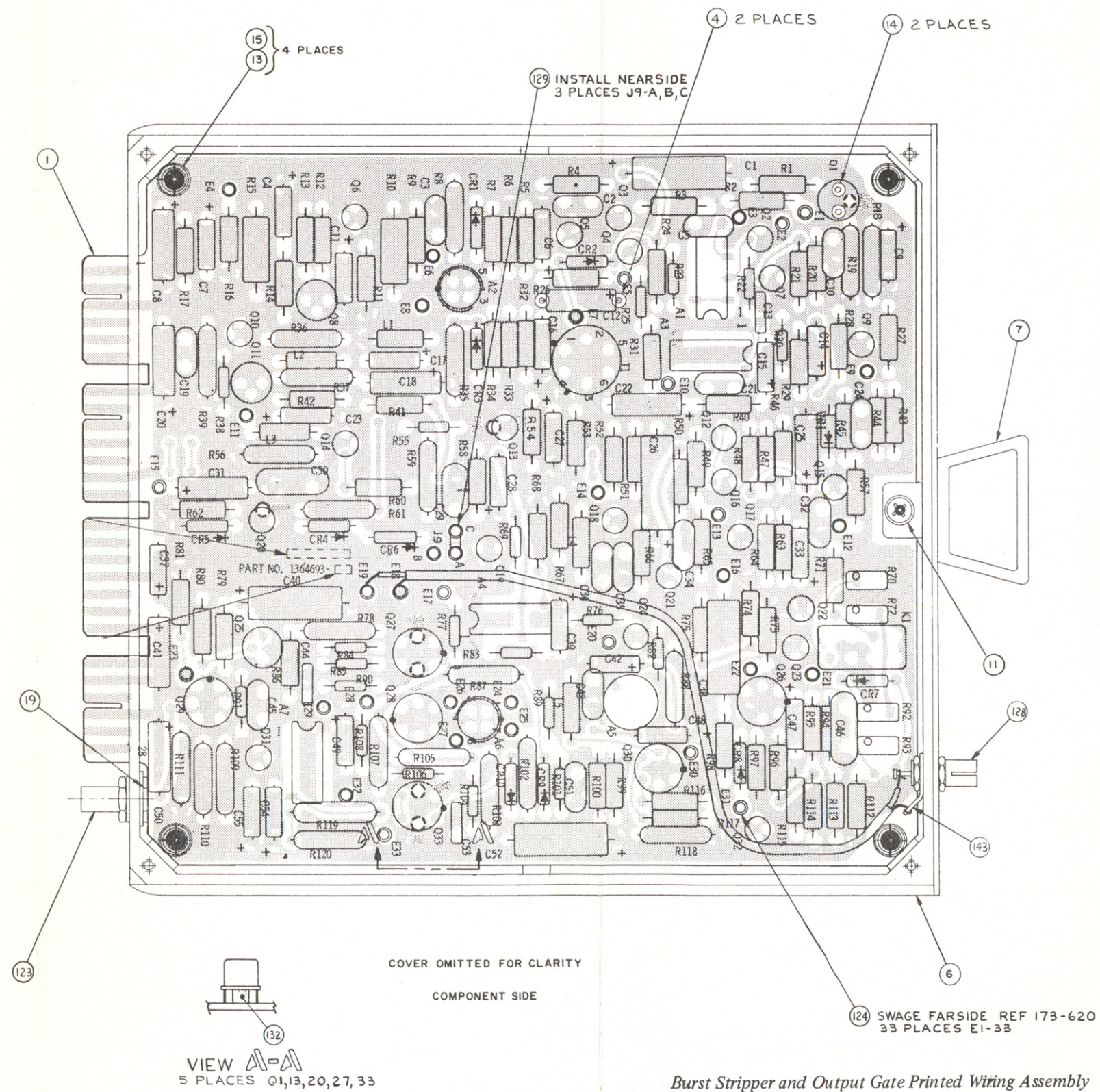
UPDATED FEB. 1971



BURST STRIPPER AND OUTPUT SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 218)						CATALOG NO. 1364693		SHEET 5 OF 5			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
170	041-735		R55	RESISTOR, Comp.,91 ohm, 1/4W, 5%		1					
171	041-560		R89	RESISTOR, Comp.,2K ohm, 1/4W, 5%		1					
172	062-573		R116,117	RESISTOR, Metal Film, 24.3K ohm, 1/8W, 1%		2					
173	041-504		R25	RESISTOR, Comp., 510 ohm, 1/4W, 5%		1					



# AMPEX



*Burst Stripper and Output Gate Printed Wiring Assembly  
(Module 218)  
Drawing No. 1364693B*

UPDATED FEB. 1971

10-593C/594C



BURST STRIPPER AND OUTPUT SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 218)						CATALOG NO. 1364693		SHEET 3 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
96	041-404		R25	RESISTOR, Fixed, 510 ohm, 1/2W, 5%		1							
97	041-500		R15	RESISTOR, Fixed, 510 ohm, 1W, 5%		1							
98	041-522		R5,32,41,79	RESISTOR, Fixed, 910 ohm, 1/2W, 5%		4							
99	041-526		R50	RESISTOR, Fixed, 1.6K ohm, 1/2W, 5%		1							
100	041-652		R90, 108	RESISTOR, Fixed, 27 ohm, 1/4W, 5%		2							
101	041-890		R9	RESISTOR, Fixed, 4.3 megohm, 1/2W, 5%		1							
102	062-358		R100	RESISTOR, Metal Film, 2.43K ohm, 1/8W, 1%		1							
103	042-475		R8,35	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1%		2							
104	042-478		R37	RESISTOR, Metal Film, 200 ohm, 1/4W, 1%		1							
105	048-865		R119	RESISTOR, Metal Film, 243 ohm, 1/2W, 1%		1							
106	062-541		R118	RESISTOR, Metal Film, 357 ohm, 1/4W, 1%		1							
107	057-913		R59	RESISTOR, Metal Film, 2.55K ohm, 1/4W, 1%		1							
108	048-625		R120	RESISTOR, Metal Film, 150 ohm, 1/4W, 1%		1							
109	057-517		R61	RESISTOR, Metal Film, 2.26K ohm, 1/4W, 1%		1							
110	048-860		R36	RESISTOR, Metal Film, 1.3K ohm, 1/4W, 1%		1							
111	051-585		L3	INDUCTOR, Fixed, 48μH, 2-1/2%		1							
112	051-588		L2	INDUCTOR, Fixed, 100μH, 2-1/2%		1							
113	056-164		C32,36	CAPACITOR, Mica, 22PF, 500V, ±.5PF		2							
114	062-430		R99	RESISTOR, Metal Film, 243K ohm, 1/8W, 1%		1							
115	057-384		R110	RESISTOR, Metal Film, 2.67K ohm, 1/4W, 1%		1							
116	057-386		R109,111	RESISTOR, Metal Film, 30.1K ohm, 1/4W, 1%		2							
117	057-453		R87	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		1							
118	057-789		R39,56	RESISTOR, Metal Film, 402 ohm, 1/4W, 1%		2							
119	057-956		R103,105	RESISTOR, Metal Film, 1.07K ohm, 1/4W, 1%		2							
120	057-980		R78,107	RESISTOR, Metal Film, 2.05K ohm, 1/4W, 1%		2							
121	062-511		R76	RESISTOR, Metal Film, 549 ohm, 1/8W, 1%		1							
122	062-661		R82	RESISTOR, Metal Film, 237 ohm, 1/8W, 1%		1							
123	139-021			CONNECTOR, Coaxial		1							
124	173-620		E1-33	TERMINAL		33							
125	280-130		Q2-7,9,10,12,14-19,21-24,31,32	PAD, Transistor Mounting		21							
126	280-173		A5	SPACER, Integrated Circuit		1							
127	280-998		Q1,8,11,25,A2,6	PAD, Transistor Mounting		6							
128	143-933		TP1	CONNECTOR, Bulkhead, receptacle		1							

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BURST STRIPPER AND OUTPUT SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 218)						CATALOG NO. 1364693		SHEET 4 OF 5						
								NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
129	143-981		J1A,B,C	JACK, Closed Entry		3								
130	602-012		J1	PLUG, Shorting, red		1								
131	616-568			CABLE, Low-C, 93 ohm		A/R								
132	932-035		FB1-6	BEADS, Ferrite		6								
133	540-015		L1	INDUCTOR, Fixed, 1000μH, 5%		1								
134	540-150		L4	INDUCTOR, Fixed, 68 μH, 2-1/2%		1								
135	541-987		L5	INDUCTOR, Fixed, 180μH, 5%		1								
136	580-169	MD918	Q27	TRANSISTOR, Dual		1								
137	586-488	MC1235L	A7	INTEGRATED CIRCUIT		1								
138	580-199	MD5000	Q33	TRANSISTOR, Dual		1								
139	586-140	9962	A1	INTEGRATED CIRCUIT		1								
140	586-309	F9601	A3	INTEGRATED CIRCUIT		1								
141	586-483	MC1226	A4	INTEGRATED CIRCUIT		1								
142	586-560	LM206H	A5	INTEGRATED CIRCUIT		1								
143	172-225		TP1	SOLDER LUG		1								
144	1366817		A2,6	SPRING, Ground Clip		2								
145	1380098-01		T1	TRANSFORMER, Pulse		1								
146	034-931		C5	CAPACITOR, Mica, 560PF, 300V, 5%		1								
147	034-177		C45	CAPACITOR, Mica, 100PF, 500V, 5%		1								
148	037-728		C27	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		1								
149	035-751		C38	CAPACITOR, Mylar, .1μF, 50V, 5%		1								
150	064-004		C44,53	CAPACITOR, Ceramic, .1μF, 100V, 10%		2								
151	057-196		R104,106	RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		2								
152	041-529		R31	RESISTOR, Fixed, 20K ohm, 1/2W, 5%		1								
153	041-653		R22	RESISTOR, Fixed, 39 ohm, 1/4W, 5%		1								
154	041-502		R38	RESISTOR, Fixed, 240 ohm, 1/4W, 5%		1								
155	041-531		R69	RESISTOR, Fixed, 750 ohm, 1/4W, 5%		1								
156	041-571		R77,83	RESISTOR, Fixed, 3.6K ohm, 1/4W, 5%		2								
157	041-419		R91	RESISTOR, Fixed, 100 ohm, 1/4W, 5%		1								
158	041-440		R30	RESISTOR, Fixed, 1.2K ohm, 1/4W, 5%		1								
159	048-655		R88	RESISTOR, Metal Film, 2.37K ohm, 1/4W, 1%		1								
160	057-914		R19	RESISTOR, Metal Film, 2.87 ohm, 1/4W, 1%		1								
161	057-795		R18	RESISTOR, Metal Film, 3.16K ohm, 1/4W, 1%		1								
162	057-375		R102	RESISTOR, Metal Film, 4.64K ohm, 1/4W, 1%		1								
163	062-764		R28	RESISTOR, Metal Film, 9.53K ohm, 1/8W, 1%		1								
164	062-765		R20	RESISTOR, Metal Film, 3.09K ohm, 1/8W, 1%		1								
165	062-154		R21	RESISTOR, Metal Film, 715 ohm, 1/8W, 1%		1								
166	059-352		R70,72,92,93	RESISTOR, Variable, 50K ohm, 1W, 5%		4								
167	034-921		C29	CAPACITOR, Mica, 1300PF, 500V, 5%		1								
168	030-966		C13	CAPACITOR, Ceramic, .01μF, 100V,10%		1								
169	041-561		R23	RESISTOR, Fixed, 5.1K ohm, 1/4W, 5%		1								

X1364693A



BURST STRIPPER AND OUTPUT SYNC GATE PRINTED WIRING ASSEMBLY CATALOG NO. 1364693						SHEET 5 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
170	041-735		R55	RESISTOR, Fixed, 91 ohm, 1/4W, 5%		1					
171	041-506		R89	RESISTOR, Fixed, 2K ohm, 1/4W, 5%		1					
172	062-573		R116,117	RESISTOR, Metal Film, 24.3K ohm, 1/8W, 1%		2					

X1364693A

10-597/598

BURST CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 219)					CATALOG NO. X1364684		SHEET 1 OF 6							
							NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-03								
3	1364686			SCHEMATIC		REF								
5	1366817-01		Q2	CLIP		1								
11	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1								
12	471-325			SCREW, Cross-recessed, flat head, 4-40 x .188		8								
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4								
15	501-008			WASHER, Plain, #4		4								
16	1368275-01			OVERLAY		1								
19	501-712		J8	WASHER, Flat, brass, .032 thick		1								
23	013-655		CR1,3-6,9-11	DIODE, FD-600		8								
25	013-678		CR12	DIODE		1								
26	013-782		CR2	DIODE, FD-700		1								
27	013-677		CR7,8,13	DIODE		3								
29	014-248		Q9,13,14,19,25,27	TRANSISTOR		6								
30	014-387		Q18,26	TRANSISTOR		2								
31	014-505		Q3,4,8,10,11,15-17	TRANSISTOR		8								
32	014-576	2N2784	Q5	TRANSISTOR		1								
33	014-581		Q6,7,24	TRANSISTOR, Silicon		3								
34	014-600		Q21,22	TRANSISTOR		2								
35	014-628		Q20	TRANSISTOR, Dual		1								
36	014-697		Q23	TRANSISTOR, Dual		1								
37	014-712		Q20,23	SPACER, Transistor, dual		2								
38	014-850	MD-918A	Q2	TRANSISTOR, Dual		1								
39	014-859	2N4208	Q12	TRANSISTOR		1								
40	580-284	2N5229	Q1	TRANSISTOR		1								
42	020-407		K1,2	PAD, Relay		2								
43	020-515		K1,2	RELAY		2								
45	037-985		C67	CAPACITOR, Tantalum, 15μF, 20V, ±10%		1								
46	030-963		C2,3,8,10,13-15,20,26,27,30,32-34,37,38,41-43,46,48-51,57,63-65	CAPACITOR, Ceramic, .1μF, 100V, ±10%		28								
48	034-532		C24	CAPACITOR, Mica, 1PF, 500V, ±0.5PF		1								
49	034-208		C28,39,56	CAPACITOR, Mica, 30PF, 500V, 5%		3								
50	034-213		C54	CAPACITOR, Mica, 150PF, 500V, 5%		1								

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BURST CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 219)					CATALOG NO. X1364684	SHEET 2 OF 6							
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
51	034-222		C4,19	CAPACITOR, Mica, 100PF, 500V, 1%		2							
52	034-266		C35	CAPACITOR, Mica, 1,500PF, 500V, 1%		1							
53	034-291		C61	CAPACITOR, Mica, 1,600PF, 500V, 5%		1							
54	034-540		C47	CAPACITOR, Mica, 51PF, 500V, 1%		1							
55	056-450		C17, 7	CAPACITOR, Mica, 168PF, 500V, 1%		2							
56	056-449		C23	CAPACITOR, Mica, 1,000PF, 500V, 1/2%		1							
57	056-447		C44	CAPACITOR, Mica, 10,000PF, 100V,1/2%		1							
58	033-361		C58	CAPACITOR, Metalized Polycarbonate, 1.0μF, 1%, 100V		1							
59	034-950		C25	CAPACITOR, Mica, 1,000PF, 100V, 5%		1							
60	034-153		C29	CAPACITOR, Mica, 1000PF, 500V, 5%		1							
61	037-246		C40,59	CAPACITOR, Tantalum, 180μF, 6V, 10%		2							
62	037-363		C62	CAPACITOR, Tantalum, 330μF, 6V, 10%		1							
63	037-472		C1,12,31,45	CAPACITOR, Tantalum, 4.7μF, 10V,10%		4							
64	037-728		C11,22,52,55	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		4							
65	037-740		C36	CAPACITOR, Tantalum, 33μF, 10V, 10%		1							
66	037-749		C60	CAPACITOR, Tantalum, 68μF, 15V, 10%		1							
67	037-991		C9,68	CAPACITOR, Tantalum, 22μF, 15V, 10%		2							
68	037-814		C21	CAPACITOR, Tantalum, plain foil, non-polar, 25μF, 6V, 20%		1							
69	037-726		C53	CAPACITOR, Tantalum, 3.3μF, 15V, 10%		1							
70	041-008		R28	RESISTOR, Composition, 1500 ohm, 1/2W, 5%		1							
71	041-010		R71	RESISTOR, Composition, 2000 ohm, 1/2W, 5%		1							
72	041-100		R17	RESISTOR, Composition, 470 ohm, 1W, 5%		1							
73	041-104		R123	RESISTOR, Composition, 1.8K ohm, 1W, 5%		1							
74	041-269		R19	RESISTOR, Composition, 360 ohm, 1W, 5%		1							
75	041-343		R99	RESISTOR, Composition, 680 ohm, 1/2W, 5%		1							
76	041-408		R108,124	RESISTOR, Composition, 10K ohm, 1/4W, 5%		2							
77	041-410		R14,27,46	RESISTOR, Composition, 1K ohm, 1/4W, 5%		3							
78	041-414		R7	RESISTOR, Composition, 2.2K ohm, 1/4W, 5%		1							
79	041-419		R6,43,52,60,65,72,94,100,115	RESISTOR, Composition, 100 ohm, 1/4W, 5%		9							
80	041-425		R21,22,38,39,82	RESISTOR, Composition, 47 ohm, 1/4W, 5%		5							

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BURST CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 219)					CATALOG NO. X1364684	SHEET 3 OF 6							
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
81	041-434		R54	RESISTOR, Composition, 1.8K ohm, 1/4W, 5%		1							
82	041-440		R50	RESISTOR, Composition, 1.2K ohm, 1/4W, 5%		1							
83	041-482		R35	RESISTOR, Composition, 12.0K ohm, 1/4W, 5%		1							
84	041-502		R1, 83, 92	RESISTOR, Composition, 240 ohm, 1/4W, 5%		3							
85	041-504		R63	RESISTOR, Composition, 510 ohm, 1/4W, 5%		1							
86	041-506		R59, 84, 122	RESISTOR, Composition, 820 ohm, 1/4W, 5%		3							
87	041-511		R119	RESISTOR, Composition, 3.9K ohm, 1/4W, 5%		1							
88	041-519		R49	RESISTOR, Composition, 56.0K ohm, 1/4W, 5%		1							
89	041-520		R33	RESISTOR, Composition, 7.5K ohm, 1/4W, 5%		1							
90	041-526		R51, 53	RESISTOR, Composition, 1600 ohm, 1/2W, 5%		2							
91	041-530		R117	RESISTOR, Composition, 15 ohm, 1/4W, 5%		1							
92	041-532		R8, 26	RESISTOR, Composition, 910 ohm, 1/4W, 5%		2							
93	041-560		R93	RESISTOR, Composition, 2.0K ohm, 1/4W, 5%		1							
94	041-569		R64	RESISTOR, Composition, 300 ohm, 1/4W, 5%		1							
95	041-570		R20	RESISTOR, Composition, 2.4K ohm, 1/4W, 5%		1							
96	041-571		R5	RESISTOR, Composition, 3.6K ohm, 1/4W, 5%		1							
97	041-572		R62	RESISTOR, Composition, 51.0K ohm, 1/4W, 5%		1							
98	041-575		R90, 91	RESISTOR, Composition, 130.0K ohm, 1/4W, 5%		2							
99	041-612		R116	RESISTOR, Composition, 30.0K ohm, 1/4W, 5%		1							
100	041-653		R16	RESISTOR, Composition, 39 ohm, 1/4W, 5%		1							
101	041-735		R40	RESISTOR, Composition, 91 ohm, 1/4W, 5%		1							
102	041-740		R103	RESISTOR, Composition, 200 ohm, 1/4W, 5%		1							
103	041-742		R48	RESISTOR, Composition, 360 ohm, 1/4W, 5%		1							
104	041-744		R118	RESISTOR, Composition, 1.3K ohm, 1/4W, 5%		1							

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BURST CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 219)					CATALOG NO. X1364684	SHEET 4 OF 6							
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
105	041-973		R15,120,121	RESISTOR, Composition, 1.1K ohm, 1/4W, 5%		3							
106	041-743		R37	RESISTOR, Composition, 430 ohm, 1/4W, 5%		1							
108	042-774		R97	RESISTOR, Metal Film, 15.0K ohm, 1/8W, 1%		1							
109	062-664		R9	RESISTOR, Metal Film, 15.8K ohm, 1/8W, 1%		1							
110	042-780		R32	RESISTOR, Metal Film, 100K ohm, 1/8W, 1%		1							
111	042-808		R70	RESISTOR, Metal Film, 953 ohm, 1/2W, 1%		1							
112	062-665		R30,96	RESISTOR, Metal Film, 178K ohm, 1/8W, 1%		2							
113	062-680		R87	RESISTOR, Metal Film, 442K ohm, 1/8W, 1%		1							
114	062-668		R107	RESISTOR, Metal Film, 133 ohm, 1/4W, 1%		1							
116	048-259		R29,85,111	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		3							
117	048-499		R106	RESISTOR, Metal Film, 619 ohm, 1/4W, 1%		1							
118	048-588		R55	RESISTOR, Metal Film, 3010 ohm, 1/8W, 1%		1							
119	062-662		R45,58	RESISTOR, Metal Film, 4990 ohm, 1/8W, 1%		2							
120	062-663		R98	RESISTOR, Metal Film, 14.3K ohm, 1/8W, 1%		1							
121	048-655		R66	RESISTOR, Metal Film, 2.37K ohm, 1/4W, 1%		1							
122	048-662		R2,24	RESISTOR, Metal Film, 3,740 ohm, 1/4W, 1%		2							
123	048-727		R79,80	RESISTOR, Metal Film, 499 ohm, 1/4W, 1%		2							
124	048-761		R23,25,76,78	RESISTOR, Metal Film, 2430 ohm, 1/4W, 1%		4							
125	048-820		R56	RESISTOR, Metal Film, 4.02K ohm, 1/4W, 1%		1							
126	062-653		R81	RESISTOR, Metal Film, 15.8K ohm, 1/4W, 1%		1							
127	048-969		R101	RESISTOR, Metal Film, 649 ohm, 1/2W, 1%		1							
128	057-499		R13	RESISTOR, Metal Film, 866 ohm, 1/4W, 1%		1							
130	049-354		R18	RESISTOR, Composition, 4.7 ohm, 1/4W, 5%		1							
131	049-579		R31	RESISTOR, Composition, 6.2 ohm, 1/4W, 5%		1							

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BURST CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 219)					CATALOG NO. X1364684	SHEET 5 OF 6					
					NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
134	035-883		C66	CAPACITOR, Mylar, .068μF, 50V, 5%		1					
137	057-382		R109	RESISTOR, Metal Film, 11.8K ohm, 1/4W, 1%		1					
138	057-513		R44,57,61	RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		3					
139	057-516		R69	RESISTOR, Metal Film, 154 ohm, 1/8W, 1%		1					
140	062-661		R68	RESISTOR, Metal Film, 237 ohm, 1/8W, 1%		1					
141	057-761		R11,12	RESISTOR, Metal Film, 1270 ohm, 1/2W, 1%		2					
142	062-669		R102	RESISTOR, Metal Film, 487 ohm, 1/4W, 1%		1					
144	062-285		R74	RESISTOR, Metal Film, 243 ohm, 1/4W, 1%		1					
145	062-416		R47	RESISTOR, Metal Film, 40.2K ohm, 1/4W, 1%		1					
146	062-674		R113	RESISTOR, Metal Film, 115K ohm, 1/4W, 1%		1					
147	062-675		R112,114	RESISTOR, Metal Film, 1 megohm, 1/4W, 1%		2					
148	062-441		R75,77	RESISTOR, Metal Film, 280 ohm, 1/4W, 1%		2					
149	062-511		R67	RESISTOR, Metal Film, 549 ohm, 1/8W, 1%		1					
150	062-682		R110	RESISTOR, Metal Film, 249K ohm, 1/8W, 1%		1					
151	062-681		R105	RESISTOR, Metal Film, 15.4K ohm, 1/8W, 1%		1					
152	057-228		R36	RESISTOR, Metal Film, 1500 ohm, 1/8W, 1%		1					
153	062-515		R34	RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		1					
154	062-650		R73	RESISTOR, Metal Film, 309 ohm, 1/8W, 1%		1					
157	143-981		J9A,B, J10A, B, C, D	CONNECTOR, Jack		6					
158	232-115			CEMENT		A/R					
159	280-130		Q1,8,12,15,18, 19,21,22,25,26	SPACER, Transistor		10					
160	280-173		A1,4,9-12,14,15	SPACER, Integrated Circuit, 8 pin		8					
161	280-174		A13	SPACER, Integrated Circuit, 10 pin		1					
164	560-094		T1	TRANSFORMER, Pulse		1					
167	586-488	MC-1235-L	A3	INTEGRATED CIRCUIT		1					
168	586-490	MC-1213-L	A2,7,8	INTEGRATED CIRCUIT		3					
169	586-489	MC-1204-L	A5,6	INTEGRATED CIRCUIT		2					

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BURST CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 219)					CATALOG NO. X1364684	SHEET 6 OF 6							
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
170	586-559	LM-201A <sub>H</sub>	A4,9,10,15	INTEGRATED CIRCUIT		4							
171	586-579	LM-102	A11	INTEGRATED CIRCUIT		1							
172	586-560	LM-206 <sub>H</sub>	A12	INTEGRATED CIRCUIT		1							
173	586-532	LM202	A14	INTEGRATED CIRCUIT		1							
174	586-048	μA-711	A13	INTEGRATED CIRCUIT		1							
175	586-264	μA-741	A1	INTEGRATED CIRCUIT		1							
179	602-012		J9,10	SHORTING PLUG, Red		2							
181	932-034			FERRITE BEAD, 57-0181		6							
182	932-035		Base Lead of: Q2-7,9-11,13, 14,16,17,24,27	FERRITE BEAD, 57-0180		16							
184	038-279		C5,6,16,18	CAPACITOR, Variable, 2.0 - 22.0PF, 500V		4							
186	062-670		R4,86	RESISTOR, Metal Film, 1000 ohm, 1/4W, 1/2%		2							
187	062-671		R89	RESISTOR, Metal Film, 2320 ohm, 1/4W, 1/2%		1							
188	062-673		R104,125	RESISTOR, Metal Film, 5000 ohm, 1/4W, 1/2%		2							
189	062-672		R88	RESISTOR, Metal Film, 4020 ohm, 1/4W, 1/2%		1							
192	062-676		R10	RESISTOR, Metal Film, 1580 ohm, 1/2W, 1/2%		1							
193	062-677		R3	RESISTOR, Metal Film, 2000 ohm, 1/2W, 1/2%		1							
194	062-655		R95	RESISTOR, Metal Film, 2430 ohm, 1/2W, 1/2%		1							
197	173-620		E1-29,46	TERMINAL		30							
198	52526-01		Q6	HEATSINK, Transistor		1							
201	051-768	Vanguard 93210S	L1,3	INDUCTOR, Fixed, 10μH		2							
202	051-769	Vanguard 9210S	L2	INDUCTOR, Fixed, 0.56μH		1							
203	051-580		L4,5	INDUCTOR, Fixed, 22MH, 5%		2							
205	615-004			WIRE, Bare, #24 AWG		A/R							
206	600-232			TUBING, Teflon, #24		A/R							
208	139-021	Sealectro 52-026-0099	J8	CABLE, Plug		1							
210	616-568			CABLE, Coaxial, 93 ohm		A/R							
214	143-933		TP1,2	CONNECTOR, Bulkhead, receptacle		2							
215	172-225		TP1,2	GROUND LUG		2							

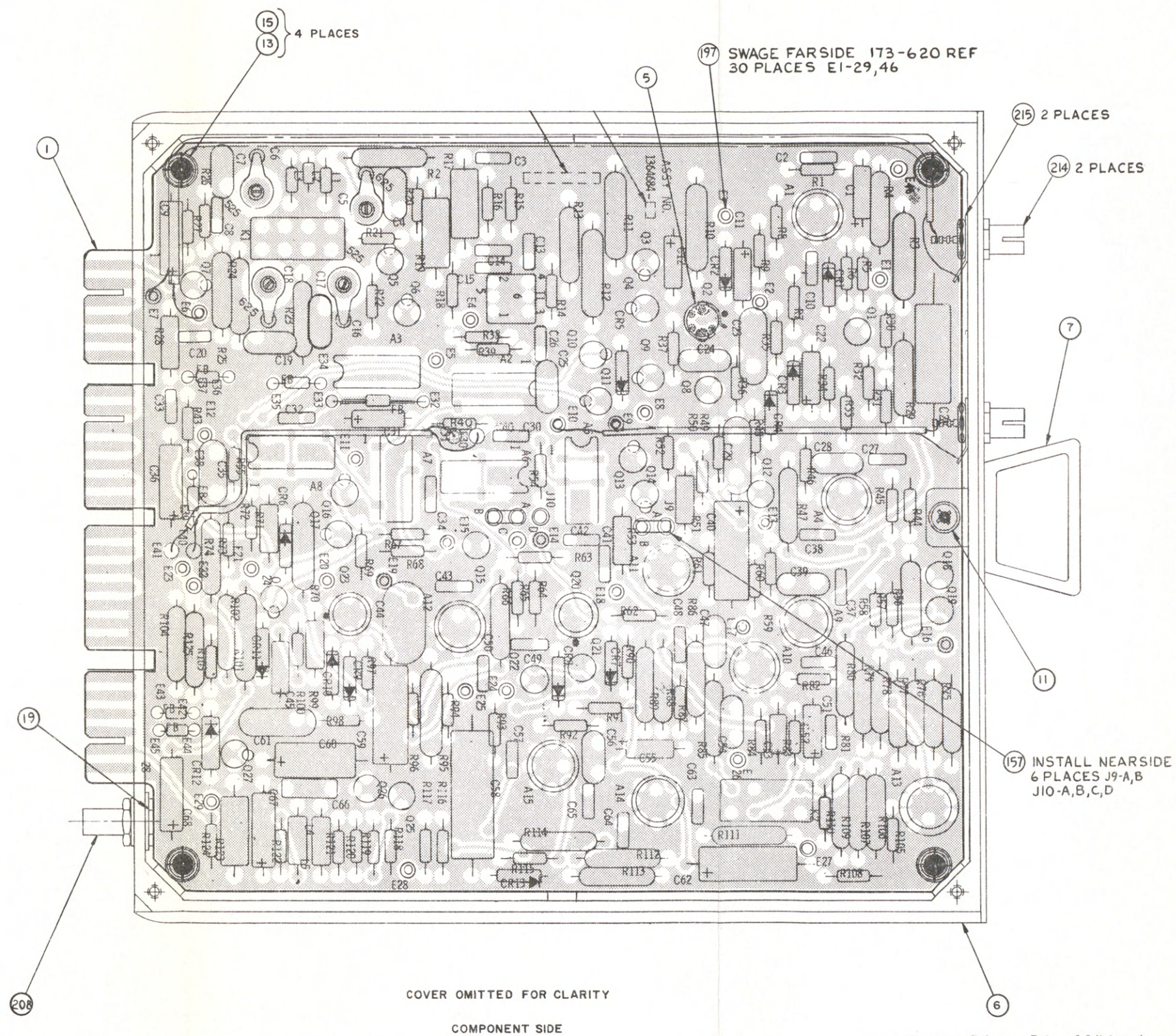
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AMPEX





REFERENCE CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 220)						CATALOG NO. X1364690		SHEET 1 OF 5							
								NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-03									
3	1364692			SCHEMATIC		REF									
9	1366817-01		Q2	CLIP, Grounding		1									
10	018-285			ADHESIVE, Thread Locking		A/R									
11	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1									
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8									
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4									
15	501-008			WASHER, Plain, #4		4									
16	1365671-01			COVER, Module		2									
19	501-712		J8	WASHER, Flat, brass, .032 thick		1									
23	013-655	FD-600	CR1,3-6,9-11	DIODE		8									
24	013-782	FD-700	CR2	DIODE		1									
26	013-678		CR12	DIODE		1									
27	013-677		CR7,8,13	DIODE		3									
29	014-248		Q9,13,14,19,25,27	TRANSISTOR		6									
30	014-387		Q18,26	TRANSISTOR		2									
31	014-505		Q3,4,8,10,11,15,16,17	TRANSISTOR		8									
32	014-576	2N2784	Q5	TRANSISTOR		1									
33	014-581		Q6,7,24	TRANSISTOR, Silicon		3									
34	014-600		Q21,22	TRANSISTOR		2									
35	014-628		Q20	TRANSISTOR, Dual		1									
36	014-697		Q23	TRANSISTOR, Dual		1									
37	014-712		Q20,23	SPACER, Transistor, Dual		2									
38	014-850	MD-918A	Q2	TRANSISTOR, Dual		1									
39	014-859	2N4208	Q12	TRANSISTOR		1									
40	580-284	2N5229	Q1	TRANSISTOR		1									
42	020-407		K1,2	PAD, Relay		2									
43	051-768	Vanguard 93210S	L1,3	INDUCTOR, Fixed, 10.0μH		2									
44	051-769	Vanguard 9210S	L2	INDUCTOR, Fixed, 0.56μH		1									
45	051-580		L4,5	INDUCTOR, Fixed, 22MH,weeductor,5%		2									
46	020-515		K1,2	RELAY		2									
48	037-985		C67	CAPACITOR, Tantalum, 15μF, 20V, ±10%		1									
49	030-963		C2,3,8,10,13-15,20,26,27,30,32-34,37,38,41-43,46,48-51,57,63-65	CAPACITOR, Ceramic, .1μF, 100V, ±10%		28									
51	034-532		C24	CAPACITOR, Mica, 1PF, 500V, ±0.5PF		1									
52	034-208		C28,39,56	CAPACITOR, Mica, 30PF, 500V, 5%		3									
53	034-213		C54	CAPACITOR, Mica, 150PF, 500V, 5%		1									
54	034-222		C4,19	CAPACITOR, Mica, 100PF, 500V, 1%		2									
55	056-450		C7,17	CAPACITOR, Mica, 168PF, 500V, 1%		2									
56	034-291		C61	CAPACITOR, Mica, 1600PF, 500V, 5%		1									
57	034-540		C47	CAPACITOR, Mica, 51PF, 500V, ±1%		1									
58	056-449		C23	CAPACITOR, Mica, 1000PF, 500V, 1/2%		1									

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REFERENCE CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 220)					CATALOG NO. X1364690	SHEET 2 OF 5							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
59	056-447		C44	CAPACITOR, Mica, 10000PF,100V, 1/2%		1							
60	033-361		C58	CAPACITOR, Metalized Polycarbonate, 1.0μF, 1%, 100V		1							
61	034-950		C25	CAPACITOR, Mica, 1000PF, 100V, 5%		1							
62	034-330		C35	CAPACITOR, Mica, 750PF, 500V, ±1%		1							
63	034-153		C29	CAPACITOR, Mica, 1000PF, 500V, 5%		1							
64	037-246		C40, 59	CAPACITOR, Tantalum, 180μF, 6V, 10%		2							
65	037-363		C62	CAPACITOR, Tantalum, 330μF, 6V, 10%		1							
66	037-472		C1, 12, 31, 45	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		4							
67	037-728		C11, 22, 52, 55	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		4							
68	037-740		C36	CAPACITOR, Tantalum, 33μF, 10V, 10%		1							
69	037-749		C60	CAPACITOR, Tantalum, 68μF, 15V, 10%		1							
70	037-991		C9, 68	CAPACITOR, Tantalum, 22μF, 15V, 10%		2							
71	037-814		C21	CAPACITOR, Tantalum, plain foil, non-polar, 25μF, 6V, ±20%		1							
72	037-726		C53	CAPACITOR, Tantalum, 3.3MF, 15V, 10%		1							
73	041-008		R28	RESISTOR, Comp., 1500 ohm, 1/2W, 5%		1							
74	041-010		R71	RESISTOR, Comp., 2000 ohm, 1/2W, 5%		1							
75	041-100		R17	RESISTOR, Comp., 470 ohm, 1W, 5%		1							
76	041-104		R123	RESISTOR, Comp., 1.8K ohm, 1W, 5%		1							
77	041-269		R19	RESISTOR, Comp., 360 ohm, 1W, 5%		1							
78	041-343		R99	RESISTOR, Comp., 680 ohm, 1/2W, 5%		1							
79	041-408		R108, 124	RESISTOR, Comp., 10K ohm, 1/4W, 5%		2							
80	041-410		R14, 27, 46	RESISTOR, Comp., 1K ohm, 1/4W, 5%		3							
81	041-414		R7	RESISTOR, Comp., 2.2K ohm, 1/4W, 5%		1							
82	041-419		R6, 43, 52, 60, 65, 72, 94, 100, 115	RESISTOR, Comp., 100 ohm, 1/4W, 5%		9							
83	041-425		R21, 22, 38, 39, 82	RESISTOR, Comp., 47 ohm, 1/4W, 5%		5							
84	041-434		R54	RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		1							
85	041-440		R50	RESISTOR, Comp., 1.2K ohm, 1/4W, 5%		1							
86	041-482		R35	RESISTOR, Comp., 12 K ohm, 1/4W, 5%		1							
87	041-502		R1, 83, 92	RESISTOR, Comp., 240 ohm, 1/4W, 5%		3							
88	041-504		R63	RESISTOR, Comp., 510 ohm, 1/4W, 5%		1							
89	041-506		R59, 84, 122	RESISTOR, Comp., 820 ohm, 1/4W, 5%		3							
90	041-511		R119	RESISTOR, Comp., 3.9K ohm, 1/4W, 5%		1							
91	041-519		R49	RESISTOR, Comp., 56 K ohm, 1/4W, 5%		1							
92	041-520		R33	RESISTOR, Comp., 7.5K ohm, 1/4W, 5%		1							
93	041-526		R51, 53	RESISTOR, Comp., 1600 ohm, 1/2W, 5%		2							
94	041-530		R117	RESISTOR, Comp., 15 ohm, 1/4W, 5%		1							
95	041-532		R8, 26	RESISTOR, Comp., 910 ohm, 1/4W, 5%		2							
96	041-560		R93	RESISTOR, Comp., 2K ohm, 1/4W, 5%		1							
97	041-569		R64	RESISTOR, Comp., 300 ohm, 1/4W, 5%		1							
98	041-570		R20	RESISTOR, Comp., 2.4K ohm, 1/4W, 5%		1							
99	041-571		R5	RESISTOR, Comp., 3.6K ohm, 1/4W, 5%		1							
100	041-572		R62	RESISTOR, Comp., 51K ohm, 1/4W, 5%		1							
101	041-575		R90, 91	RESISTOR, Comp., 130K ohm, 1/4W, 5%		2							
102	041-612		R116	RESISTOR, Comp., 30K ohm, 1/4W, 5%		1							

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REFERENCE CROSSING SE LECTOR PRINTED WIRING ASSEMBLY (MODULE 220)						CATALOG NO. X1364690		SHEET 3 OF 5							
								NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-03									
103	041-653		R16	RESISTOR, Comp., 39 ohm, 1/4W, 5%		1									
104	041-735		R40-42	RESISTOR, Comp., 91 ohm, 1/4W, 5%		3									
105	041-740		R103	RESISTOR, Comp., 200 ohm, 1/4W, 5%		1									
106	041-742		R48	RESISTOR, Comp., 360 ohm, 1/4W, 5%		1									
107	041-744		R118	RESISTOR, Comp., 1.3K ohm, 1/4W, 5%		1									
108	041-973		R15,120,121	RESISTOR, Comp., 1.1K ohm, 1/4W, 5%		3									
109	041-743		R37	RESISTOR, Comp., 430 ohm, 1/4W, 5%		1									
111	042-774		R97	RESISTOR, Metal Film, 15K ohm, 1/8W, 1%		1									
112	062-664		R9	RESISTOR, Metal Film, 15.8K ohm, 1/8W, 1%		1									
113	042-780		R32	RESISTOR, Metal Film, 100K ohm, 1/8W 1/8W, 1%		1									
114	062-665		R96	RESISTOR, Metal Film, 178K ohm, 1/8W, 1%		1									
115	062-685		R30	RESISTOR, Metal Film, 357K ohm, 1/8W, 1%		1									
116	062-667		R87	RESISTOR, Metal Film, 536K ohm, 1/8W, 1%		1									
117	062-668		R107	RESISTOR, Metal Film, 133 ohm, 1/4W, 1%		1									
118	057-623		R70	RESISTOR, Metal Film, 1070 ohm, 1/2W, 1%		1									
121	048-259		R29,85,111	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		3									
122	048-499		R106	RESISTOR, Metal Film, 619 ohm, 1/4W, 1%		1									
123	048-588		R55	RESISTOR, Metal Film, 3010 ohm, 1/8W, 1%		1									
124	062-662		R45,58	RESISTOR, Metal Film, 4990 ohm, 1/8W, 1%		2									
125	062-663		R98	RESISTOR, Metal Film, 14.3K ohm, 1/8W, 1%		1									
126	048-655		R66	RESISTOR, Metal Film, 2.37K ohm, 1/4W, 1%		1									
127	048-662		R2,24	RESISTOR, Metal Film, 3740 ohm, 1/4W, 1%		2									
128	048-727		R79,80	RESISTOR, Metal Film, 499 ohm, 1/4W, 1%		2									
129	048-761		R23,25,76,78	RESISTOR, Metal Film, 2430 ohm, 1/4W, 1%		4									
130	048-820		R56	RESISTOR, Metal Film, 4.02K ohm, 1/4W, 1%		1									
131	062-653		R81	RESISTOR, Metal Film, 15.8K ohm, 1/4W, 1%		1									
132	057-262		R101	RESISTOR, Metal Film, 750 ohm, 1/2W, 1%		1									
133	057-499		R13	RESISTOR, Metal Film, 866 ohm, 1/4W, 1%		1									
135	049-354		R18	RESISTOR, Comp., 4.7 ohm, 1/4W, 5%		1									
136	049-579		R31	RESISTOR, Comp., 6.2 ohm, 1/4W, 5%		1									
139	035-883		C66	CAPACITOR, Mylar, .068μF, 50V, 5%		1									
142	057-382		R109	RESISTOR, Metal Film, 11.8K ohm, 1/4W, 1%		1									

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REFERENCE CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 220)					CATALOG NO. X1364690	SHEET 4 OF 5 NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
143	057-513		R44, 57, 61	RESISTOR, Metal Film, 1000 ohm, 1/8W, 1%		3					
144	057-516		R69	RESISTOR, Metal Film, 154 ohm, 1/8W, 1%		1					
145	057-761		R11, 12	RESISTOR, Metal Film, 1270 ohm, 1/2W, 1%		2					
146	062-661		R68	RESISTOR, Metal Film, 237 ohm, 1/8W, 1%		1					
147	062-669		R102	RESISTOR, Metal Film, 487 ohm, 1/4W, 1%		1					
148	062-285		R74	RESISTOR, Metal Film, 243 ohm, 1/4W, 1%		1					
149	062-416		R47	RESISTOR, Metal Film, 40.2K ohm, 1/4W, 1%		1					
150	062-674		R113	RESISTOR, Metal Film, 115K ohm, 1/4W, 1%		1					
151	062-675		R112, 114	RESISTOR, Metal Film, 1 megohm, 1/4W, 1%		2					
152	062-441		R75, 77	RESISTOR, Metal Film, 280 ohm, 1/4W, 1%		2					
153	062-511		R67	RESISTOR, Metal Film, 549 ohm, 1/8W, 1%		1					
154	062-682		R110	RESISTOR, Metal Film, 249K ohm, 1/8W, 1%		1					
155	062-681		R105	RESISTOR, Metal Film, 15.4K ohm, 1/8W, 1%		1					
156	057-228		R36	RESISTOR, Metal Film, 1500 ohm, 1/8W, 1%		1					
157	062-515		R34	RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		1					
158	062-650		R73	RESISTOR, Metal Film, 309 ohm, 1/8W, 1%		1					
161	143-981		J9A, B J10A, B, C, D	CONNECTOR, Jack		6					
162	232-115			CEMENT		A/R					
163	280-130		Q1, 8, 12, 15, 18, 19, 21, 22, 25, 26	SPACER, Transistor		10					
164	280-173		A1, 4, 9-12, 14, 15	SPACER, Integrated Circuit, 8 pin		8					
165	280-174		A13	SPACER, Integrated Circuit, 10 pin		1					
168	560-094		T1	TRANSFORMER, Pulse		1					
171	586-488	MC1235L	A3	INTEGRATED CIRCUIT		1					
172	586-489	MC1204L	A5, 6	INTEGRATED CIRCUIT		2					
173	586-559	LM201AH	A4, 9, 10, 15	INTEGRATED CIRCUIT		4					
174	586-579	LM102	A11	INTEGRATED CIRCUIT		1					
175	586-560	LM206H	A12	INTEGRATED CIRCUIT		1					
176	586-532	LM202	A14	INTEGRATED CIRCUIT		1					
177	586-048	μA711	A13	INTEGRATED CIRCUIT		1					
178	586-264	μA741	A1	INTEGRATED CIRCUIT		1					
179	586-490	MC1213L	A2, 7, 8	INTEGRATED CIRCUIT		3					
183	602-012		J9, 10	PLUG, Shorting, red		2					
185	932-034	57-0181		FERRITE BEAD		6					
186	932-035	57-0180	Base lead of: Q2-7, 9-11, 13, 14, 16, 17, 24, 27	FERRITE BEAD		16					
188	52526-01		Q6	HEATSINK, Transistor		1					

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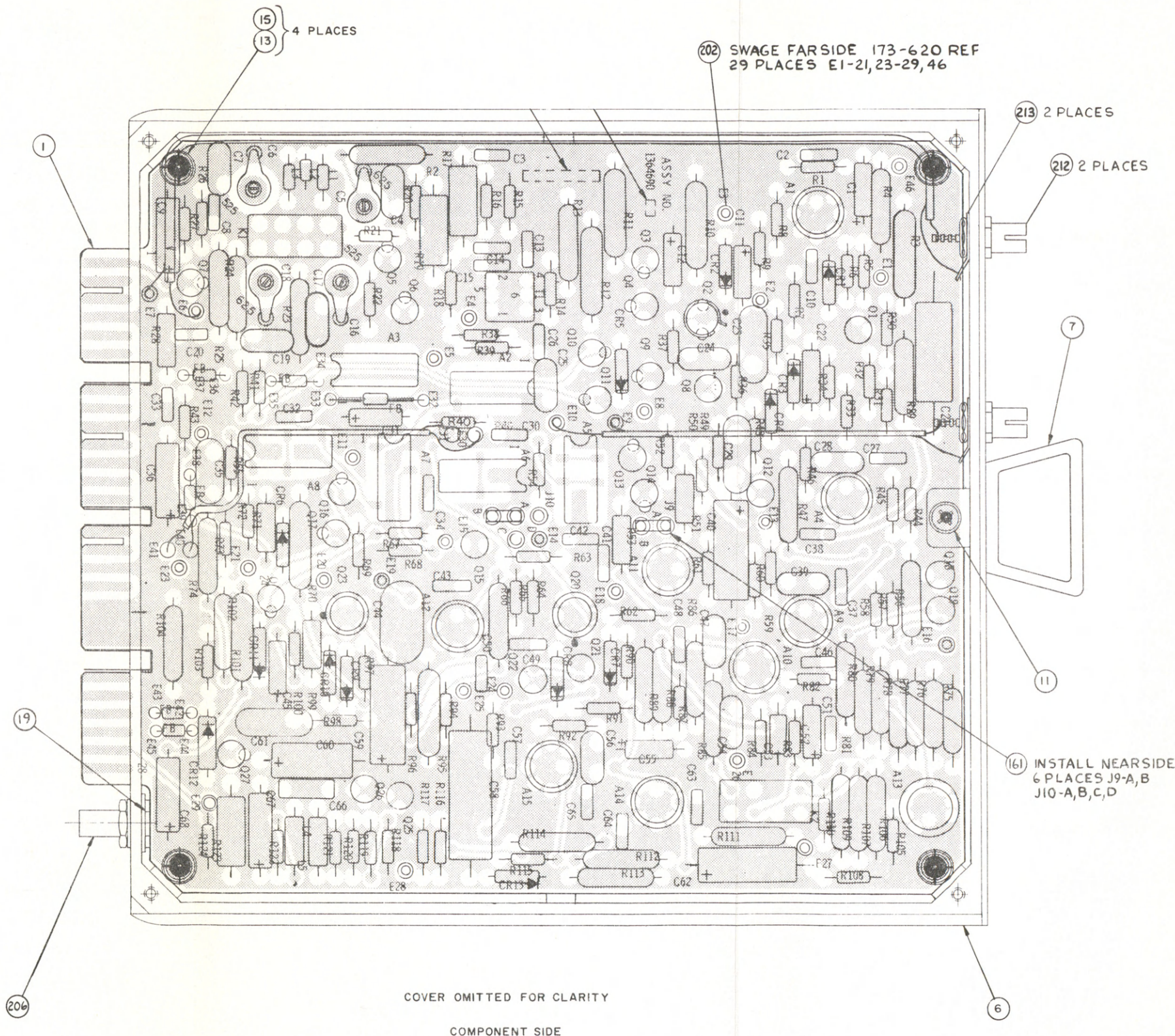


REFERENCE CROSSING SELECTOR PRINTED WIRING ASSEMBLY (MODULE 220)						CATALOG NO. X1364690		SHEET 5 OF 5				
								NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-03						
190	038-279	52-026-0099 Sealectro	C5,6,16,18	CAPACITOR, Variable, 2.0 - 22.0PF,500V		4						
193	062-670		R4, 86	RESISTOR, Metal Film, 1000 ohm, 1/4W, 1/2%		2						
194	062-671		R89	RESISTOR, Metal Film, 2320 ohm, 1/4W, 1/2%		1						
195	062-673		R104	RESISTOR, Metal Film, 5000 ohm, 1/4W, 1/2%		1						
196	057-858		R88	RESISTOR, Metal Film, 10K ohm, 1/4W, 1/2%		1						
197	062-676		R10	RESISTOR, Metal Film, 1580 ohm, 1/2W, 1/2%		1						
198	062-677		R3	RESISTOR, Metal Film, 2000 ohm, 1/2W, 1/2%		1						
199	062-655		R95	RESISTOR, Metal Film, 2430 ohm, 1/2W, 1/2%		1						
202	173-620		E1-21, 23-29, 46	TERMINAL		29						
203	615-004			WIRE, Bare, AWG, #24		A/R						
204	600-232			TUBING, Teflon, #24		A/R						
206	139-021		J8	CABLE, Plug		1						
208	616-568			CABLE, Coaxial, 93 ohm		A/R						
212	143-933		TP1,2	CONNECTOR, Bulk Head, receptacle		2						
213	172-225		TP1,2	GROUND LUG		2						

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AMPEX



Reference Crossing Selector Printed Wiring Assembly  
(Module 220)  
Drawing No. 1364690D



ERROR DETECTOR AND CONTROL VOLTAGE AMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 221)						CATALOG NO. X1364696		SHEET 1 OF 6			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
3	1364698			SCHEMATIC		REF					
9	1380098-01		T1,2	TRANSFORMER		2					
10	018-285			ADHESIVE, Thread Locking		A/R					
11	475-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
14	1365671-01			COVER, Module		2					
15	501-008			WASHER, Plain, #4		4					
19	501-712			WASHER, Flat, brass, .032 thick		1					
21	103307-01		C7,17	STANDOFF, .250 Long		4					
22	1366817-01		CR3,7	SPRING, Ground Clip		2					
24	143-981		J1A, B, C J2A, B, C, D J3A, B	JACK, Printed Circuit		9					
25	166-219		TP2	CONNECTOR, RF Receptacle		1					
26	139-021		J8	CONNECTOR, Coaxial		1					
27	173-620		E1-19	TERMINAL, Turret		19					
28	602-012		J1-3	PLUG, Shorting, red		3					
29	280-998		CR3,7	SPACER, Transistor, 4 pin		2					
30	014-712		Q8,9,16-19, 21-23	SPACER, Transistor, 6 pin		9					
31	280-173		A1,2,6,8,9,10	SPACER, Integrated, 8 pin		6					
32	280-174		A7	SPACER, Integrated, 10 pin		1					
33	280-130		Q10,15	PAD, Transistor Mounting		2					
34	58200-01		CR13-23	DIODE SPECIFICATION DRAWING, Selected in 660		11					
35	013-838	FSA1529	CR3,7	DIODE, Quad		2					
36	013-677		CR2,4-6,8-10	DIODE		7					
37	013-655	FD600	CR1,12	DIODE		2					
38	013-782	FD700	CR11	DIODE		1					
40	014-628		Q17,21	TRANSISTOR, Dual		2					
41	014-853	MD2905	Q23	TRANSISTOR, Dual		1					
42	014-854	MD2219	Q16,22	TRANSISTOR, Dual		2					
43	014-855	2N2918	Q19	TRANSISTOR, Dual		1					
44	014-856	2N3811	Q18	TRANSISTOR, Dual		1					
45	014-858	2N3504	Q15,20	TRANSISTOR,		2					

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ERROR DETECTOR AND CONTROL VOLTAGE AMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 221)					CATALOG NO. X1364696	SHEET 2 OF 6					
					NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
46	014-850	MD918A	Q11	TRANSISTOR, Dual		1					
47	014-852	MD2369A	Q8	TRANSISTOR, Dual		1					
48	014-697		Q9	TRANSISTOR, Dual		1					
49	014-247		Q1,2	TRANSISTOR		2					
50	014-859	2N4208	Q12	TRANSISTOR		1					
51	014-505		Q6,7,10	TRANSISTOR		3					
52	014-506		Q3-5,13,14	TRANSISTOR		5					
54	586-559	LM201AH	A6,9	INTEGRATED CIRCUIT		2					
55	586-532	LM202	A1,2,8	INTEGRATED CIRCUIT		3					
56	586-443		A7	INTEGRATED CIRCUIT		1					
57	586-264		A10	INTEGRATED CIRCUIT		1					
58	586-483	MC1226L	A3	INTEGRATED CIRCUIT		1					
59	586-490	MC1216L	A4,5	INTEGRATED CIRCUIT		2					
60	020-515	HFW1223D01	K1	RELAY		1					
61	020-407		K1	PAD, Relay Mounting		1					
63	034-532		C21	CAPACITOR, Mica, 1PF, 500V, $\pm 5\%$		1					
64	034-156		C42	CAPACITOR, Mica, 5PF, 500V, $\pm 5\%$		1					
65	034-963		C8,19	CAPACITOR, Mica, 15PF, 500V, $\pm 5\%$		2					
66	034-360		C39	CAPACITOR, Mica, 24PF, 500V, $\pm 5\%$		1					
67	034-208		C15,32	CAPACITOR, Mica, 30PF, 500V, $\pm 5\%$		2					
68	034-942		C40,41	CAPACITOR, Mica, 36PF, 500V, $\pm 5\%$		2					
69	034-940		C44,45	CAPACITOR, Mica, 82PF, 500V, $\pm 5\%$		2					
70	034-199		C14	CAPACITOR, Mica, 300PF, 500V, $\pm 5\%$		1					
71	034-253		C9	CAPACITOR, Mica, 330PF, 500V, $\pm 1\%$		1					
72	056-459		C1,29	CAPACITOR, Mica, 470PF, 500V, $\pm 1/2\%$		2					
73	056-292		C16	CAPACITOR, Mica, 500PF, 500V, $\pm 5\%$		1					
74	056-449		C20	CAPACITOR, Mica, 1000PF, 500V, $\pm 1/2\%$		1					
75	034-950		C26	CAPACITOR, Mica, 1000PF, 100V, 5%		1					
76	034-161		C24	CAPACITOR, Mica, 2000PF, 100V, 5%		1					
77	030-966		C38	CAPACITOR, Ceramic, .01 $\mu$ F, 100V, 10%		1					
78	064-004		C12,13,23,25,27,28,35	CAPACITOR, Ceramic, 0.1 $\mu$ F, 100V, 10%		7					
79	037-383		C37	CAPACITOR, NP, Tantalum, 5 $\mu$ F, 15V		1					
80	037-164		C2,5	CAPACITOR, Tantalum, 1 $\mu$ F, 35V		2					
81	037-472		C11,30,31,36	CAPACITOR, Tantalum, 4.7 $\mu$ F, 10V		4					
82	037-728		C34	CAPACITOR, Tantalum, 6.8 $\mu$ F, 6V		1					

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ERROR DETECTOR AND CONTROL VOLTAGE AMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 221)						CATALOG NO. X1364696		SHEET 3 OF 6						
						NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-03								
83	037-991		C10,22,43,46	CAPACITOR, Tantalum, 22μF, 15V		4								
84	037-740		C7,17	CAPACITOR, Tantalum, 33μF, 10V		2								
85	037-745		C4,18	CAPACITOR, Tantalum, 47μF, 6V		2								
86	037-746		C3,6	CAPACITOR, Tantalum, 47μF, 20V		2								
87	037-246		C33	CAPACITOR, Tantalum, 180μF, 6V		1								
89	540-061		L1,2	INDUCTOR, Fixed, 18μH, 5%		2								
90	041-734		R5,6,10,11	RESISTOR, Comp., 62 ohm, 1/4W, 5%		4								
91	041-735		R2,87,95,109	RESISTOR, Comp., 91 ohm, 1/4W, 5%		4								
92	041-419		R3,12,49,68	RESISTOR, Comp., 100 ohm, 1/4W, 5%		4								
93	041-435		R14,41,89,130	RESISTOR, Comp., 150 ohm, 1/4W, 5%		4								
94	041-647		R17	RESISTOR, Comp., 75 ohm, 1/4W, 5%		1								
95	041-559		R38,39	RESISTOR, Comp., 120 ohm, 1/4W, 5%		2								
96	041-740		R4,59,85	RESISTOR, Comp., 200 ohm, 1/4W, 5%		3								
97	041-396		R90,91	RESISTOR, Comp., 220 ohm, 1/4W, 5%		2								
98	041-502		R28,63,72	RESISTOR, Comp., 240 ohm, 1/4W, 5%		3								
99	041-503		R13,129,131	RESISTOR, Comp., 270 ohm, 1/4W, 5%		3								
100	041-742		R69	RESISTOR, Comp., 360 ohm, 1/4W, 5%		1								
101	041-743		R47	RESISTOR, Comp., 430 ohm, 1/4W, 5%		1								
102	041-504		R30	RESISTOR, Comp., 510 ohm, 1/4W, 5%		1								
104	041-414		R50,51	RESISTOR, Comp., 2.2K ohm, 1/4W, 5%		2								
105	041-571		R22,23	RESISTOR, Comp., 3.6K ohm, 1/4W, 5%		2								
106	041-511		R18	RESISTOR, Comp., 3.9K ohm, 1/4W, 5%		1								
107	041-408		R27,42	RESISTOR, Comp., 10K ohm, 1/4W, 5%		2								
108	041-612		R70	RESISTOR, Comp., 30K ohm, 1/4W, 5%		1								
109	041-761		R62	RESISTOR, Comp., 300K ohm, 1/4W, 5%		1								
110	041-393		R107	RESISTOR, Comp., 1 megohm, 1/4W, 5%		1								
111	041-789		R43	RESISTOR, Comp., 6.8 megohm, 1/4W, 5%		1								
113	041-010		R7,15,16	RESISTOR, Comp., 2K ohm, 1/2W, 5%		3								
114	041-316		R86	RESISTOR, Comp., 2.4K ohm, 1/2W, 5%		1								
115	041-604		R78	RESISTOR, Comp., 1K ohm, 1/2W, 5%		1								
116	041-025		R79	RESISTOR, Comp., 150K ohm, 1/2W, 5%		1								
117	041-893		R104	RESISTOR, Comp., 11 megohm, 1/2W, 5%		1								
118	041-897		R100	RESISTOR, Comp., 15 megohm, 1/2W, 5%		1								
120	044-419		R80	RESISTOR, Variable, wirewound, 10K ohm, 1/2W, 5%		1								

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ERROR DETECTOR AND CONTROL VOLTAGE AMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 221)					CATALOG NO. X1364696		SHEET 4 OF 6							
							NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-03								
123	062-714		R102	RESISTOR, Metal Film, 165 ohm, 1/8W, 1%		1								
124	057-226		R35	RESISTOR, Metal Film, 243 ohm, 1/8W, 1%		1								
125	062-515		R8, 33	RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2								
126	057-945		R55	RESISTOR, Metal Film, 909 ohm, 1/8W, 1%		1								
127	057-513		R26	RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		1								
128	057-203		R37, 40, 71	RESISTOR, Metal Film, 10K ohm, 1/8W, 1%		3								
129	062-746		R127, 128, 132	RESISTOR, Metal Film, 12.7K ohm, 1/8W, 1%		3								
130	062-508		R88, 92	RESISTOR, Metal Film, 13.3K ohm, 1/8W, 1%		2								
131	062-664		R52	RESISTOR, Metal Film, 15.8K ohm, 1/8W, 1%		1								
132	057-205		R44, 81, 123	RESISTOR, Metal Film, 28K ohm, 1/8W, 1%		3								
133	057-206		R32	RESISTOR, Metal Film, 39.2K ohm, 1/8W, 1%		1								
134	062-747		R82	RESISTOR, Metal Film, 158K ohm, 1/8W, 1%		1								
135	062-787		R54	RESISTOR, Metal Film, 232K ohm, 1/8W, 1%		1								
136	062-745		R105	RESISTOR, Metal Film, 11.5K ohm, 1/8W, 1%		1								
137	062-451		R103	RESISTOR, Metal Film, 110 ohm, 1/8W, 1%		1								
139	057-850		R76	RESISTOR, Metal Film, 2.49K ohm, 1/4W, 1/2%		1								
140	057-851		R64, 98	RESISTOR, Metal Film, 3.92K ohm, 1/4W, 1/2%		2								
141	057-852		R110	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1/2%		1								
142	057-853		R111	RESISTOR, Metal Film, 6.49K ohm, 1/4W, 1/2%		1								
143	057-854		R75	RESISTOR, Metal Film, 7.87K, 1/4W, 1/2%		1								
144	057-855		R115	RESISTOR, Metal Film, 11.5K ohm, 1/4W, 1/2%		1								
145	057-857		R97	RESISTOR, Metal Film, 9.31K ohm, 1/4W, 1/2%		1								
146	057-858		R99	RESISTOR, Metal Film, 10.0K ohm, 1/4W, 1/2%		1								
147	057-859		R112	RESISTOR, Metal Film, 10.5K ohm, 1/4W, 1/2%		1								

X1364696G



ERROR DETECTOR AND CONTROL VOLTAGE AMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 221)					CATALOG NO. X1364696	SHEET 5 OF 6									
					NHA 1366053										
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-03									
148	057-860		R113	RESISTOR, Metal Film, 11.0K ohm, 1/4W, 1/2%		1									
149	057-861		R116	RESISTOR, Metal Film, 11.8K ohm, 1/4W, 1/2%		1									
150	057-862		R117	RESISTOR, Metal Film, 12.1K ohm, 1/4W, 1/2%		1									
151	057-863		R119	RESISTOR, Metal Film, 12.4K ohm, 1/4W, 1/2%		1									
152	057-864		R121	RESISTOR, Metal Film, 12.7K ohm, 1/4W, 1/2%		1									
153	057-865		R118	RESISTOR, Metal Film, 16.5K ohm, 1/4W, 1/2%		1									
154	057-866		R120	RESISTOR, Metal Film, 26.1K ohm, 1/4W, 1/2%		1									
155	057-867		R122	RESISTOR, Metal Film, 47.5K ohm, 1/4W, 1/2%		1									
156	057-868		R77,114	RESISTOR, Metal Film, 8.66K ohm, 1/4W, 1/2%		2									
157	057-869		R96	RESISTOR, Metal Film, 3.16K ohm, 1/4W, 1/2%		1									
162	057-846		R83	RESISTOR, Metal Film, 3.4K ohm, 1/4W, 1/4%		1									
164	057-813		R106,108	RESISTOR, Metal Film, 1.5K ohm, 1/4W, 1/10%		2									
165	062-753		R29,31,57,58	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1/10%		4									
167	057-808		R93	RESISTOR, Metal Film, 412 ohm, 1/2W, 1%		1									
168	042-457		R133	RESISTOR, Metal Film, 523 ohm, 1/2W, 1%		1									
169	048-795		R36	RESISTOR, Metal Film, 590 ohm, 1/2W, 1%		1									
170	048-794		R20	RESISTOR, Metal Film, 1K ohm, 1/2W, 1%		1									
171	057-761		R21	RESISTOR, Metal Film, 1.27K ohm, 1/2W, 1%		1									
172	048-703		R19	RESISTOR, Metal Film, 1.3K ohm, 1/2W, 1%		1									
173	048-143		R94,134	RESISTOR, Metal Film, 2.67K ohm, 1/2W, 1%		2									
175	062-676		R45	RESISTOR, Metal Film, 1.58K ohm, 1/2W, 1/2%		1									
176	066-059		R74	RESISTOR, Metal Film, 3.32K ohm, 1/4W, 1/2%		1									
178	058-632		R53	RESISTOR, Variable, 500 ohm, wirewound, 1W, 5%		1									
179	058-669		R25	RESISTOR, Variable, 50K ohm, wirewound, 1W, 5%		1									

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ERROR DETECTOR AND CONTROL VOLTAGE AMPLIFIER PRINTED WIRING ASSEMBLY (MODULE 221)					CATALOG NO. X1364696	SHEET 6 OF 6 NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
180	059-352		R56	RESISTOR, Variable, 50K ohm, wirewound, 1W, 5%		1					
182	932-035		FB1-13	BEADS, Ferrite		13					
183	103307-02		Q1,2	STANDOFF, .125 Long, fiber		4					
185	143-933		TP1	CONNECTOR, Bulkhead Receptacle		1					
186	172-225			SOLDER LUG		1					
187	600-234			TUBING, Teflon		A/R					
188	616-568			CABLE, Low-C, 93 ohm		A/R					
189	614-588			WIRE, Bare, 22 AWG, solid		A/R					
190	057-228		R48	RESISTOR, Metal Film, 1.5K ohm, 1/8W, 1%		1					
191	062-525		R9,34	RESISTOR, Metal Film, 2.1K ohm, 1/8W, 1%		2					
192	062-722		R61	RESISTOR, Metal Film, 2.55K ohm, 1/8W, 1%		1					
193	048-588		R24	RESISTOR, Metal Film, 3.01K ohm, 1/8W, 1%		1					
194	062-743		R84	RESISTOR, Metal Film, 3.65K ohm, 1/8W, 1%		1					
195	062-744		R101	RESISTOR, Metal Film, 4.12K ohm, 1/8W, 1%		1					
196	062-509		R73	RESISTOR, Metal Film, 5.23K ohm, 1/8W, 1%		1					
197	062-788		R46	RESISTOR, Metal Film, 97.6K ohm, 1/8W, 1%		1					
198	062-789		R65	RESISTOR, Metal Film, 1.15K ohm, 1/4W, 1/2%		1					
199	062-791		R60	RESISTOR, Metal Film, 3.83K ohm, 1/4W, 1/2%		1					
200	062-790		R66,67	RESISTOR, Metal Film, 1.62K ohm, 1/4W, 1/2%		2					
201	066-114		R125	RESISTOR, Metal Film, 1.216K ohm, 1/2W, 1/4%		1					
202	066-115		R124	RESISTOR, Metal Film, 2.350K ohm, 1/2W, 1/4%		1					
203	066-116		R126	RESISTOR, Metal Film, 6.430K ohm, 1/2W, 1/4%		1					

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UPDATED FEB. 1971







**SIGNAL DELAY**  
**MODULES 226-242**

30 MHz MODULATOR & SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 226)					CATALOG NO. X1364636	SHEET 1 OF 5					
					NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364638			SCHEMATIC		REF					
4	1366817-01		A3	SPRING, Ground Clip		1					
5	1367428-01		L1,4	INDUCTOR, Filter		2					
11	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
14	1368281-01			OVERLAY		1					
15	501-008			WASHER, Plain, #4		4					
16	1368901-02			CABLE ASSEMBLY		1					
17	616-568			CABLE, Coaxial		A/R					
19	501-712			WASHER, Flat, brass, .032 thick		1					
21	143-933		TP1	CONNECTOR, Bulkhead Receptacle		1					
22	1368188-72			LABEL, Module		1					
23	103307-02		Q26	STANDOFF, .125 Long		2					
25	013-460	1N825A	VR1,2	DIODE, Zener, 6.2V		2					
26	013-599		CR10	DIODE		1					
27	013-677		CR6,7,11	DIODE		3					
28	013-689		CR8,9	DIODE		2					
29	013-723	FD777	CR1	DIODE		1					
30	013-829		VR3,4	DIODE, Zener, 3.9V		2					
31	013-838	Quad FSA 1529	A3	DIODE ASSEMBLY		1					
32	013-966	HP 5082-2912	CR2,5,3,4	DIODE, Matched Pair		2					
33	014-505		Q21,24	TRANSISTOR		2					
34	014-247		Q26	TRANSISTOR		1					
35	014-248		Q23	TRANSISTOR		1					
36	014-387		Q2	TRANSISTOR		1					
37	014-581		Q14-16	TRANSISTOR		3					
38	014-628		Q20	TRANSISTOR, Dual		1					
39	014-697		Q3,4	TRANSISTOR, Dual		2					
40	014-712		Q3-6,17,20,22	SPACER, Transistor		7					
41	014-730	2N3502	Q19	TRANSISTOR		1					
42	014-738		Q9,11,12	TRANSISTOR		3					
44	014-853	MD2905	Q22	TRANSISTOR, Dual		1					
47	020-407		K1-3	PAD, Relay Mounting		3					

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30 MHz MODULATOR & SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 226)						CATALOG NO. X1364636		SHEET 2 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
48	020-515		K1-3	RELAY		3							
51	032-226		C15,16	CAPACITOR, Porcelain, 13PF, 500V, ±5%		2							
54	034-345		C33	CAPACITOR, Mica, 3PF, 500V, ±.5PF		1							
55	034-376		C8	CAPACITOR, Dip Mica, 33PF, 500V, ±.5PF		1							
56	034-680		C28	CAPACITOR, Mica, 6800PF, 300V, ±1%		1							
57	034-759		C30	CAPACITOR, Mica, 15PF, 500V, ±.5PF		1							
58	034-918		C29	CAPACITOR, Mica, 68PF, 500V, 1%		1							
59	034-222		C32	CAPACITOR, Mica, 100PF, 500V, 1%		1							
62	035-734		C25,27,35	CAPACITOR, Mylar, .01μF, 50V, 5%		3							
64	030-967		C42	CAPACITOR, Ceramic, 1000PF, 100V, ±10%		1							
66	037-164		C36,38	CAPACITOR, Tantalum, 1μF, 35V, 10%		2							
67	037-472		C22,26,37,39,40,43,44,46-48	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		10							
68	037-507		C2,7,21	CAPACITOR, Tantalum, 150μF, 15V, ±10%		3							
70	037-740		C19,20	CAPACITOR, Tantalum, 33μF, 10V, ±10%		2							
71	037-749		C24	CAPACITOR, Tantalum, 68μF, 15V, 10%		1							
72	037-991		C1,3,11,14,18,34,41	CAPACITOR, Tantalum, 22μF, 15V, 10%		7							
75	041-561		R97,113	RESISTOR, Comp., 5.1K ohm, 1/4W, 5%		2							
76	041-343		R53	RESISTOR, Comp., 680 ohm, 1/2W, 5%		1							
77	041-504		R14	RESISTOR, Comp., 510 ohm, 1/4W, 5%		1							
78	041-408		R73,91	RESISTOR, Comp., 10K ohm, 1/4W, 5%		2							
79	041-410		R6,25	RESISTOR, Comp., 1K ohm, 1/4W, 5%		2							
80	041-419		R5,16,20,21,36,41,42,57,85	RESISTOR, Comp., 100 ohm, 1/4W, 5%		9							
81	041-425		R19,40,46	RESISTOR, Comp., 47 ohm, 1/4W, 5%		3							
82	041-426		R33,34	RESISTOR, Comp., 68 ohm, 1/4W, 5%		2							
83	041-428		R35	RESISTOR, Comp., 470 ohm, 1/4W, 5%		1							
84	041-429		R32,72	RESISTOR, Comp., 680 ohm, 1/4W, 5%		2							
85	041-435		R80,83	RESISTOR, Comp., 150 ohm, 1/4W, 5%		2							
86	041-437		R61,62	RESISTOR, Comp., 1.6K ohm, 1/4W, 5%		2							
88	041-531		R55	RESISTOR, Comp., 750 ohm, 1/4W, 5%		1							
89	041-532		R71	RESISTOR, Comp., 910 ohm, 1/4W, 5%		1							
90	041-539		R28	RESISTOR, Comp., 130 ohm, 1/4W, 5%		1							
91	041-554		R15,17,31,38,47,48	RESISTOR, Comp., 51 ohm, 1/4W, 5%		6							
92	041-560		R18,39,89	RESISTOR, Comp., 2K ohm, 1/4W, 5%		3							

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30 MHz MODULATOR & SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 226)						CATALOG NO. X1364636		SHEET 3 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
93	041-316		R82	RESISTOR, Comp., 2.4K ohm, 1/2W, 5%		1							
94	041-652		R67,77,84,90	RESISTOR, Comp., 27 ohm, 1/4W, 5%		4							
95	041-743		R103	RESISTOR, Comp., 430 ohm, 1/4W, 5%		1							
96	041-571		R111,112	RESISTOR, Comp., 3.6K ohm, 1/4W, 5%		2							
98	042-382		R8	RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		1							
102	048-429		R1	RESISTOR, Metal Film, 2.15K ohm, 1/8W, 1%		1							
103	057-196		R95,96	RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		2							
104	048-712		R74	RESISTOR, Metal Film, 75 ohm, 1/4W, 1%		1							
105	066-112		R68	RESISTOR, Metal Film, 1.96K ohm, 1/8W, 1%		1							
106	048-743		R66	RESISTOR, Metal Film, 1.1K ohm, 1/4W, 1%		1							
107	048-655		R94,102	RESISTOR, Metal Film, 2.37K ohm, 1/4W, 1%		2							
111	051-841		L2,3	INDUCTOR, Variable, 1.2-1.8μH		2							
113	056-022		C6	CAPACITOR, Dip Mica, 6.8PF, 500V, ±0.5PF		1							
114	056-239		C5,17	CAPACITOR, Dip Mica, 10PF, 500V, ±.5PF		2							
115	056-434		C13	CAPACITOR, Dip Mica, 395PF, 300V, ±1%		1							
116	062-573		R78,69	RESISTOR, Metal Film, 24.3K ohm, 1/8W, 1%		2							
117	062-661		R93,100	RESISTOR, Metal Film, 237 ohm, 1/8W, 1%		2							
119	057-224		R60	RESISTOR, Metal Film, 301 ohm, 1/8W, 1%		1							
120	062-430		R70	RESISTOR, Metal Film, 243K ohm, 1/8W, 1%		1							
121	057-384		R108	RESISTOR, Metal Film, 2.67K ohm, 1/4W, 1%		1							
122	057-386		R109,110	RESISTOR, Metal Film, 30.1K ohm, 1/4W, 1%		2							
123	057-453		R79,104	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		2							
124	057-490		R51	RESISTOR, Metal Film, 23.7 ohm, 1/8W, 1%		1							
125	057-498		R12	RESISTOR, Metal Film, 866 ohm, 1/2W, 1%		1							
126	057-675		R76	RESISTOR, Metal Film, 301 ohm, 1/4W, 1%		1							
127	057-777		R11	RESISTOR, Metal Film, 681 ohm, 1/8W, 1%		1							

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30 MHz MODULATOR & SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 226)					CATALOG NO. X1364636	SHEET 4 OF 5							
					NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
128	057-827		R75	RESISTOR, Metal Film, 1.87K ohm, 1/4W, 1%		1							
129	062-772		R86	RESISTOR, Metal Film, 487 ohm, 1/8W, 1%		1							
130	057-948		R22, 43	RESISTOR, Metal Film, 1.1K ohm, 1/8W, 1%		2							
131	057-949		R7	RESISTOR, Metal Film, 1.15K ohm, 1/8W, 1%		1							
132	057-956		R105, 106	RESISTOR, Metal Film, 1.07K ohm, 1/4W, 1%		2							
133	057-980		R81, 107	RESISTOR, Metal Film, 2.05K ohm, 1/4W, 1%		2							
134	062-511		R92, 101	RESISTOR, Metal Film, 549 ohm, 1/8W, 1%		2							
135	062-513		R99	RESISTOR, Metal Film, 5.76K ohm, 1/8W, 1%		1							
136	058-516		R58	RESISTOR, Variable, 50 ohm, 1/2W, ±10%		1							
137	058-563		R49	RESISTOR, Variable, 20 ohm, 1/2W, ±10%		1							
138	058-564		R3	RESISTOR, Variable, 500 ohm, 1/2W, ±10%		1							
139	058-573		R10, 54, 88	RESISTOR, Variable, 100 ohm, 1/2W, ±10%		3							
142	057-947		R87	RESISTOR, Metal Film, 1.05K ohm, 1/8W, 1%		1							
144	062-419		R50, 52	RESISTOR, Metal Film, 221 ohm, 1/8W, 1%		2							
146	062-451		R13, 37	RESISTOR, Metal Film, 110 ohm, 1/8W, 1%		2							
147	062-453		R9	RESISTOR, Metal Film, 475 ohm, 1/8W, 1%		1							
148	062-485		R65	RESISTOR, Metal Film, 11.3K ohm, 1/4W, 1%		1							
149	062-491		R4, 56	RESISTOR, Metal Film, 365 ohm, 1/8W, 1%		2							
150	062-521		R30	RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1							
151	062-603		R2	RESISTOR, Metal Film, 316 ohm, 1/8W, 1%		1							
152	062-604		R24, 45	RESISTOR, Metal Film, 825 ohm, 1/8W, 1%		2							
153	062-605		R26	RESISTOR, Metal Film, 3.74K ohm, 1/8W, 1%		1							
154	062-536		R29	RESISTOR, Metal Film, 41.2 ohm, 1/8W, 1%		1							
155	062-630		R27	RESISTOR, Metal Film, 422 ohm, 1/8W, 1/4%		1							
156	062-631		R23, 44	RESISTOR, Metal Film, 2.49K ohm, 1/8W, 1%		2							

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30 MHz MODULATOR & SYNC GATE PRINTED WIRING ASSEMBLY (MODULE 226)						CATALOG NO. X1364636		SHEET 5 OF 5			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
157	057-771		R98	RESISTOR, Metal Film, 6.34K ohm, 1/8W, 1%		1					
158	064-016		C9,10	CAPACITOR, Ceramic, 3300PF, 50V, ±10%		2					
159	030-966		C4,12,49	CAPACITOR, Ceramic, .01μF, 100V, ±10%		3					
160	064-004		C23,31,45	CAPACITOR, Ceramic, .1μF,100V,±10%		3					
165	166-219		J9	CONNECTOR, Coaxial		1					
167	143-981		J10-A, B	CONNECTOR, Printed Circuit, tip jack		2					
168	173-620		E6,12-22,24-29	TERMINAL		18					
169	173-045		E1-5,7-11	TERMINAL, Teflon, press fit		10					
172	280-130		Q1,2,10-12,14-16,21,23,24	PAD, Transistor, mounting		11					
173	280-173		A2,6	SPACER, Integrated Circuit		2					
175	280-998		A3,Q19	PAD, Transistor, mounting		2					
178	051-761		L5	INDUCTOR, Variable, 0.68μH, ±20%		1					
181	541-987		L6	INDUCTOR, Fixed, 180μH, 5%		1					
184	560-295		T1	TRANSFORMER		1					
187	580-162	MM1605	Q1,8,10	TRANSISTOR		3					
188	014-850	MD918A	Q18	TRANSISTOR, Dual		1					
189	580-199	MD5000	Q25	TRANSISTOR, Dual		1					
190	580-292		Q5-7,13	TRANSISTOR		4					
191	580-265	2N4937	Q17	TRANSISTOR		1					
193	586-560	LM206H	A2,6	INTEGRATED CIRCUIT		2					
194	586-478	MC1217L	A5	INTEGRATED CIRCUIT		1					
195	586-483	MC1226L	A7	INTEGRATED CIRCUIT		1					
196	586-488	MC1235L	A4	INTEGRATED CIRCUIT		1					
197	586-490	MC1213L	A1	INTEGRATED CIRCUIT		1					
198	602-012		J10	PLUG, Jumper		1					
200	614-588			WIRE, Bare, 22 AWG		A/R					
202	922-344		Q7	PLASTIC, Sheet, pressure sensitive, .005 thick		A/R					
203	932-035		FB1-4,6-11,12	FERRITE BEADS, .125		11					
204	932-034		FB5	FERRITE BEADS, .250		1					
205	172-225		TP1	SOLDER, Lug		1					
206	600-296			SLEEVING, Teflon		A/R					

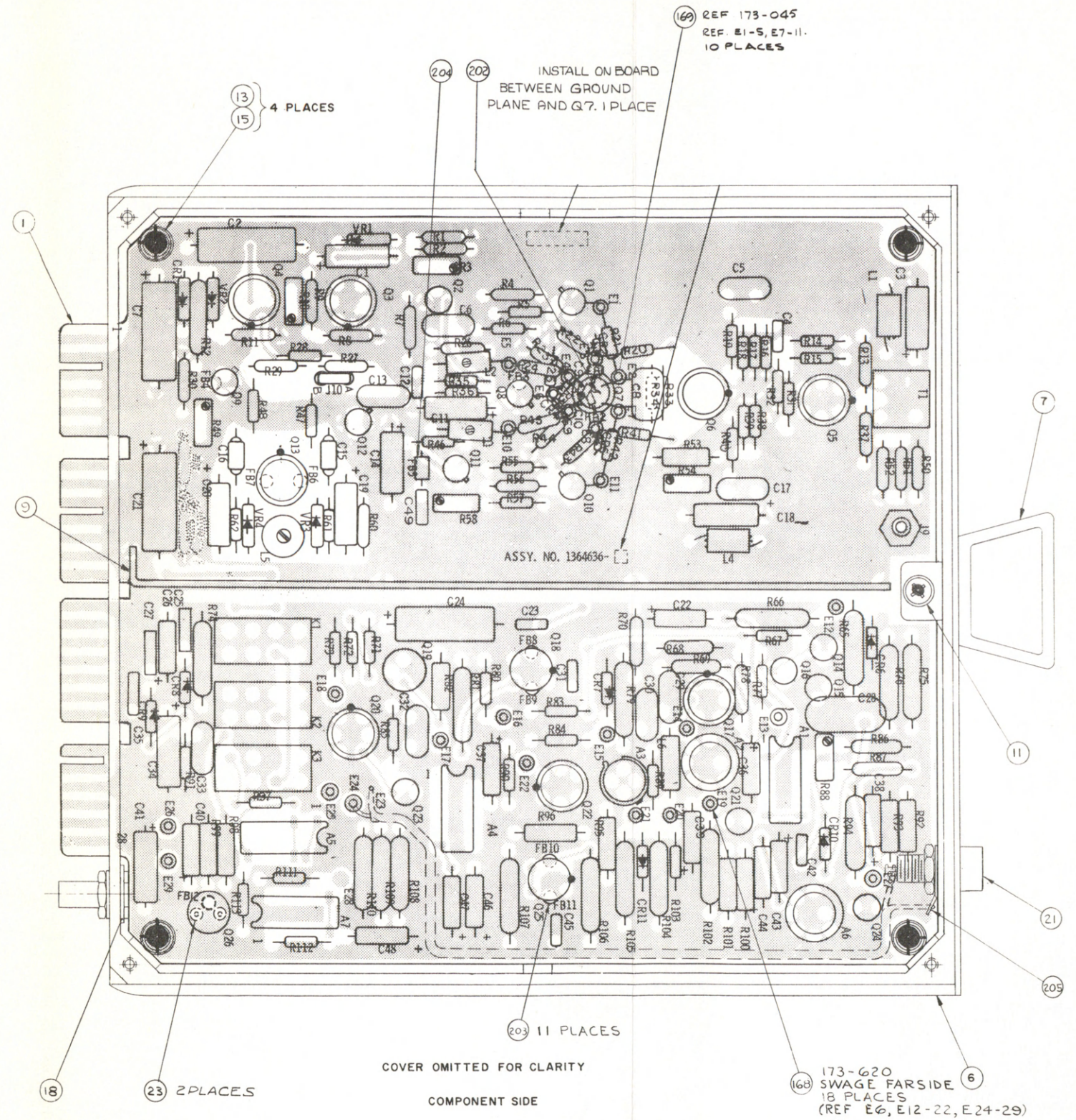
X1364636G

UPDATED FEB. 1971

10-611B/612B



AMPEX



30-MHz Modulator and Sync Gate Printed Wiring  
Assembly (Module 226)  
Drawing No. 1364636G



63 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 227)					CATALOG NO. X1364639		SHEET 1 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
2	136 4641	051-799		SCHEMATIC		REF							
5	1363791-01			HANDLE, Printed Wiring Board		1							
6	1365026-07			DELAY LINE, Ultrasonic		1							
7	1366818-01			MODULE, Preamplifier		1							
8	1368705-02			INDUCTOR, Fixed, precision		3							
9	1366810-02			SHIELD, Delay Module, left		1							
10	1366811-01			SHIELD, Delay Module, right		1							
11	1366812-04			INDUCTOR, Pretuned		2							
12	1366814-11			CABLE ASSEMBLY, 50 ohm		1							
13	1366814-40			CABLE ASSEMBLY, 50 ohm		1							
16	1366817-01			CLIP, Ground, transistor		1							
19	1368260-01			OVERLAY, Module		1							
21	103307-01			STANDOFF, .25 Long		6							
22	103307-02			STANDOFF, .125 Long		2							
24	013-166			DIODE, Zener, 3.3V		1							
27	014-613			HEATSINK, Transistor, MW cooler		3							
28	014-715			SPACER, Transistor		6							
29	014-783			SPACER, Transistor		1							
32	018-285			ADHESIVE, Thread Locking		A/R							
35	030-966			CAPACITOR, Ceramic, .01μF, 100V,10%		45							
36	020-968			CAPACITOR, Ceramic, .033μF, 100V,10%		2							
40	034-156			CAPACITOR, Mica, 5PF, 500V, .5PF		1							
41	034-182			CAPACITOR, Mica, 56PF, 500V, 5%		1							
42	034-185			CAPACITOR, Mica, 75PF, 500V, ±5%		1							
43	034-215			CAPACITOR, Mica, 10PF, 500V, 5%		2							
44	034-269			CAPACITOR, Mica, 22PF, 500V, 5%		1							
45	034-360			CAPACITOR, Mica, 24PF, 500V, .5PF		2							
46	034-532			CAPACITOR, Mica, 1PF, 500V, .5PF		1							
47	034-540			CAPACITOR, Mica, 51PF, 500V, 1%		2							
48	034-541			CAPACITOR, Mica, 62PF, 500V, 1%		1							
49	034-788			CAPACITOR, Mica, 27PF, 500V, 2%		2							
52	038-275			CAPACITOR, Variable, 5.5 - 18PF		1							
53	038-277			CAPACITOR, Variable, 9 - 35PF		1							
56	041-003			RESISTOR, Comp., 100 ohm, 1/2W, 5%		1							
57	041-009			RESISTOR, Comp., 1.8K ohm, 1/2W, 5%		1							
58	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2							

X1364639B

63 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 227)						CATALOG NO. X1364639		SHEET 2 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
59	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		2							
60	041-331			RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		1							
61	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1							
63	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2							
64	041-417			RESISTOR, Comp., 390 ohm, 1/4W, 5%		1							
65	041-425			RESISTOR, Comp., 47 ohm, 1/4W, 5%		1							
66	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2							
67	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		1							
68	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1							
69	041-442			RESISTOR, Comp., 2700 ohm, 1/4W, 5%		1							
70	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1							
71	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2							
72	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1							
73	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		1							
74	041-559			RESISTOR, Comp., 120 ohm, 1/4W, 5%		1							
75	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1							
76	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1							
78	041-697			RESISTOR, Comp., 100 ohm, 1/8W, 5%		1							
79	041-733			RESISTOR, Comp., 56 ohm, 1/4W, 5%		1							
80	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1							
81	041-995			RESISTOR, Comp., 430 ohm, 2W, 5%		1							
83	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		2							
88	048-131			RESISTOR, Metal Film, 1.21K ohm, 1/2W, 1%		3							
89	048-136			RESISTOR, Metal Film, 681 ohm, 1/2W, 1%		1							
90	048-154			RESISTOR, Metal Film, 1.1K ohm, 1/2W, 1%		1							
91	048-403			RESISTOR, Metal Film, 499 ohm, 1/2W, 1%		1							
92	048-585			RESISTOR, Metal Film, 30.1 ohm, 1/8W, 1%		2							
93	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1							
94	048-669			RESISTOR, Metal Film, 845 ohm, 1/2W, 1%		1							
95	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1							
96	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2							

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63 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 227)					CATALOG NO. X1364639		SHEET 3 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
98	049-402			RESISTOR, Comp., 47 ohm, 1/8W, 5%		1					
99	049-597			RESISTOR, Comp., 160 ohm, 1W, 5%		1					
100	049-598			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1					
101	049-599			RESISTOR, Comp., 510 ohm, 2W, 5%		1					
102	049-600			RESISTOR, Comp., 22 ohm, 1/8W, 5%		6					
104	051-724			INDUCTOR, Variable, 0.15μH		1					
105	051-725			INDUCTOR, Variable, 0.22μH		1					
106	051-727			INDUCTOR, Variable, 0.33μH		2					
107	051-751			INDUCTOR, Fixed, 22μH, 10%		1					
108	051-798			INDUCTOR, Variable, 1.0μH		1					
109	051-811			INDUCTOR, Variable, 1.5μH		1					
111	056-388			CAPACITOR, Mica, 8.2PF, 500V, .5PF		1					
113	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4					
114	057-196			RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		1					
115	057-513			RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		2					
117	058-516			RESISTOR, Variable, 50 ohm, 1/2W, 10%		3					
118	058-518			RESISTOR, Variable, 100 ohm, 1/2W, 5%		2					
119	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1					
120	058-538			RESISTOR, Variable, 200 ohm, 1/2W, 10%		1					
123	062-151			RESISTOR, Metal Film, 75 ohm, 75 ohm, 1/8W, 1%		4					
124	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		4					
125	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1					
126	062-379			RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		2					
127	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1					
128	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2					
129	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1					
130	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2					
131	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1					
132	062-522			RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		1					

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63 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 227)						CATALOG NO. X1364639		SHEET 4 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
133	062-523			RESISTOR, Metal Film, 422 ohm, 1/8W, 1%		1							
134	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		1							
135	062-627			RESISTOR, Metal Film, 374 ohm, 1/8W, 1%		1							
136	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1							
139	066-066			RESISTOR, Metal Film, 1.18K ohm, 1/2W, 1%		1							
140	066-067			RESISTOR, Metal Film, 60.4 ohm, 1/8W, 1%		1							
142	087-063			GREASE, Silicone, DC-4		A/R							
145	139-045			CONNECTOR, Printed Wiring Board, right angle, 50 ohm		1							
146	139-238			CONNECTOR, Jack, .025 diameter pin		3							
147	143-981			CONNECTOR, Jack, .040 diameter pin		26							
149	166-219			CONNECTOR, Printed Wiring Board, straight, 50 ohm		8							
151	280-998			SPACER, Transistor		7							
154	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
155	471-559			SCREW, Binder Head, slot, 4-40 x .375		7							
156	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4							
157	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2							
158	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4							
159	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2							
160	496-004			NUT, Assembled Washer, 4-40		1							
163	501-008			WASHER, Flat, #4		4							
164	501-712			WASHER, Flat, brass, .032 thick		1							
165	501-715			WASHER, Shoulder, nylon		2							
166	501-740			WASHER, Flat, aluminum, 9-32 x .016		1							
167	540-052			INDUCTOR, Fixed, 6.8μH, 10%		2							
168	560-295			TRANSFORMER, BT8		1							
171	580-106	2N3866		TRANSISTOR		3							
172	580-124	2N5160		TRANSISTOR		1							
173	580-169	MD918		TRANSISTOR, Dual		1							
174	580-280	MM1607		TRANSISTOR		14							

X1364639B

10-614A

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63 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 227)					CATALOG NO. X1364639		SHEET 5 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
175	580-292			TRANSISTOR		1							
176	580-348			HEATSINK, Transistor		1							
179	600-161			SLEEVING, Extruded, #22		A/R							
180	602-012			CONNECTOR, Plug, shorting, red		9							
181	615-002			WIRE, Bare, solid, 22 AWG		A/R							
184	932-034			FERRITE BEAD, .236 Long		12							
185	932-035			FERRITE BEAD, .118 Long		10							
186	932-037			FERRITE BEAD, .050 Long		2							

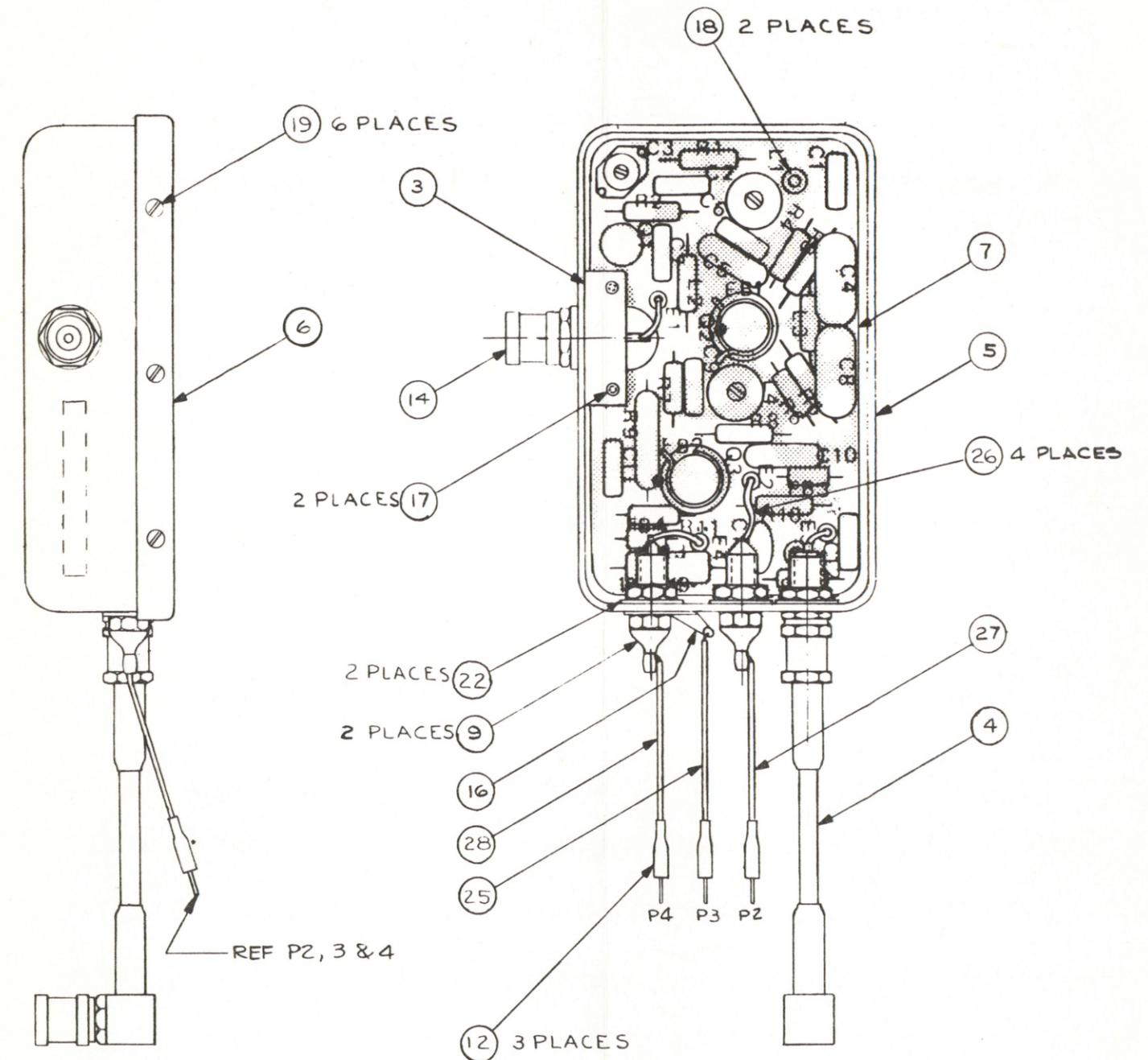
X1364639B



30 MHz PREAMPLIFIER MODULE ASSEMBLY					CATALOG NO. X1366818		SHEET 1 OF 1						
							NHA 1369446						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
2	1366820			SCHEMATIC		REF							
3	1366821-01			BLOCK, Connector Mounting		1							
4	1366822-01		P1	CABLE ASSEMBLY		1							
5	1366823-01			HOUSING, Preamplifier		1							
6	1367283-01			COVER, Housing, preamplifier		1							
7	1366819-03			PRINTED WIRING ASSEMBLY, Preamplifier, 30 MHz		1							
9	030-969		C14,15	CAPACITOR, Feed Thru, 1000PF, 100V, +30 -20%		2							
12	139-050		P2-4	CONNECTOR, PIN, Insulated		3							
14	145-514		J1	RECEPTACLE, Sub Min, R. F.		1							
16	172-065		E5	LUG, Solder, #8		1							
17	472-451			SCREW, Machine, cross-recessed, pan head, 2-56 x .188		2							
18	473-365			SCREW, Machine, cross-recessed, 100°, flat head, 2-56 x .188		2							
19	476-089			SCREW, Sheet Metal, cross-recessed, pan head, 2-32 x .188		6 6							
22	502-026			WASHER, Lock, internal tooth, #8		2							
25	611-487		P3	WIRE, Black, #26 AWG		A/R							
26	615-004			WIRE, Bare, #24 AWG		A/R							
27	617-033		P2	WIRE, Red, #26 AWG		A/R							
28	617-037		P4	WIRE, Blue, #26 AWG		A/R							

X1366818D

AMPEX



30-MHz Preamplifier Module Assembly  
Drawing No. 1366818D

UPDATED FEB. 1971

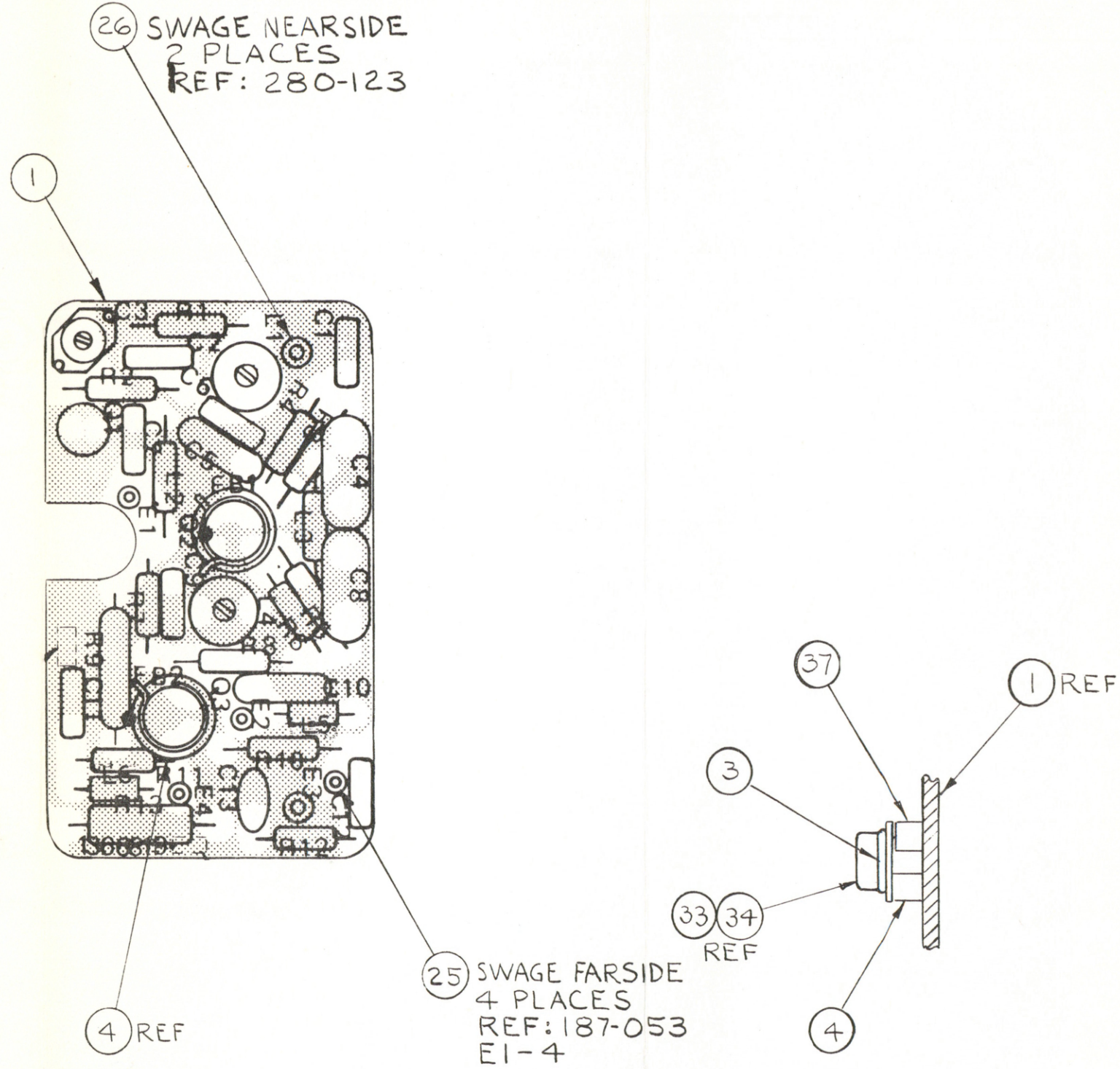
10-615A/616A

30 MHz PREAMPLIFIER PRINTED WIRING ASSEMBLY						CATALOG NO. X1366819		SHEET 1 OF 1					
								NHA 1366818					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
2	1366820			SCHEMATIC		REF							
3	1366817-01		Q2,3 <	CLIP, Ground, transistor		3							
4	103307-02		Q2,3	SPACER, Component, .125 long		2							
6	014-715		Q1	SPACER, Transistor		1							
8	030-966		C1,2,6,7,9,11	CAPACITOR, Ceramic, .01μF,100V,±10%		6							
9	030-968		C12	CAPACITOR, Ceramic, .033μF, 100V, ±10%		1							
10	038-283		C3	CAPACITOR, Variable, 1.6 - 9.0μF,50V		1							
11	034-157		C10	CAPACITOR, Mica, 2PF, 500V, ±.5PF		1							
12	034-919		C4,8	CAPACITOR, Mica, 270 PF, 500V, ±1%		2							
13	041-404		R13	RESISTOR, Comp., 510 ohm, 1/2W, ±5%		1							
14	041-414		R11	RESISTOR, Comp., 2.2K ohm, 1/4W,±5%		1							
15	041-560		R4,6	RESISTOR, Comp., 2K ohm, 1/4W, ±5%		2							
16	041-554		R12	RESISTOR, Comp., 51 ohm, 1/4W, ±5%		1							
17	041-570		R7	RESISTOR, Comp., 2.4K ohm, 1/4W, ±5%		1							
18	042-895		R10	RESISTOR, Metal Film, 47.5 ohm, 1/8W, ±1%		1							
19	048-887		R9	RESISTOR, Metal Film, 340 ohm, 1/4W, ±1%		1							
20	056-388		C5	CAPACITOR, Mica, 8.2PF, 500V, ±.5PF		1							
21	056-389		C13	CAPACITOR, Mica, 12PF, 500V, ±5%		1							
22	062-515		R8	RESISTOR, Metal Film, 499 ohm, 1/8W, ±1%		1							
23	062-548		R1,2	RESISTOR, Metal Film, 604 ohm, 1/8W, ±1%		2							
24	062-611		R3,5	RESISTOR, Metal Film, 53.6 ohm, 1/8W, ±1%		2							
25	187-053		E1-4	TERMINAL, Solder		4							
26	280-123			SPACER, 2-56, swage, hex, .125 long		2							
27	051-813		L5,6	INDUCTOR, Fixed, 22 μH, ±10%		2							
28	051-762		L2	INDUCTOR, Fixed, 6.8μH, ±10%		1							
29	051-763		L3	INDUCTOR, Fixed, 0.47 μH, ±2.5%		1							
30	051-794		L4	INDUCTOR, Variable, 0.68μH		1							
31	051-793		L1	INDUCTOR, Variable, 1.5 μH		1							
33	580-168	MD2369	Q3	TRANSISTOR, Dual		1							
34	580-315	MD4957	Q2	TRANSISTOR, Dual		1							
35	580-252	2N4134	Q1	TRANSISTOR		1							
37	932-035		FB1,2	FERRITE BEAD		2							

X1366819E



AMPEX



30-MHz Preamplifier Printed Wiring Assembly  
Drawing No. 1366819E

DOUBLER/DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 228)					CATALOG NO.	X1364642	SHEET 1 OF 7				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364644			SCHEMATIC		REF					
4	1366814-11		J8	CABLE ASSEMBLY		1					
5	1366814-17		J2	CABLE ASSEMBLY		1					
10	018-285			ADHESIVE, Thread Locking		A/R					
11	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
14	1366814-19		J3	CABLE ASSEMBLY		1					
15	501-008			WASHER, Plain, #4		4					
16	1368029-02			SHIELD, Demodulator		1					
17	1368030-02			SHIELD, Doubler		1					
18	501-740			WASHER, Flat, brass, .016 thick		2					
19	501-712			WASHER, Flat, brass, .032 thick		1					
20	501-715			WASHER, Shoulder, nylon		4					
21	1368188-74			LABEL MODULES		1					
22	1366817-01		Q20,27,28,31	SPRING, Ground Clip		4					
23	1367428-01		L12-16	INDUCTOR, Fixed		5					
24	1366812-02		L6,8	INDUCTOR, Variable, .190μH		2					
25	1366812-03		L7	INDUCTOR, Variable, .260μH		1					
26	103307-01		R42,61,63,119,125	STANDOFF		10					
27	1365687-28		L9,11	INDUCTOR, Variable, 4.40μH		2					
28	1365687-29		L10	INDUCTOR, Variable, 5.46μH		1					
29	1367397-01		L2	INDUCTOR, Variable, 13.6μH		1					
30	013-224		VR2	DIODE, Zener, 6.8V		1					
31	013-312		VR7	DIODE, Zener, 7.5V		1					
32	013-332		VR1	DIODE, Zener, 4.7V		1					
33	013-358		VR6	DIODE, Zener, 5.1V		1					
34	013-723	FD777	CR1,2	DIODE		2					
35	013-829		VR3-5	DIODE, Zener, 3.9V		3					
36	051-724		L4	INDUCTOR, Variable, 0.15μH		1					
38	1368282			OVERLAY		1					
40	014-070		Q3,4	HEATSINK		2					
41	014-613		Q11	HEATSINK		1					
42	014-248		Q21	TRANSISTOR		1					

X1364642 E

DOUBLER/DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 228)				CATALOG NO. X1364642		SHEET 2 OF 7					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
43	014-364		Q5	TRANSISTOR		1					
44	014-505		Q1	TRANSISTOR		1					
45	014-576	2N2784	Q13,16,17,32,33	TRANSISTOR		5					
46	014-581		Q12,15,26	TRANSISTOR		3					
48	014-738		Q6-8,10,18,19	TRANSISTOR		6					
49	014-783		Q20,22,31	TRANSISTOR, Mounting Pad		3					
50	014-850	MD918A	Q20	TRANSISTOR		1					
51	014-852	MD2369A	Q2	TRANSISTOR		1					
52	014-853	MD2905	Q4	TRANSISTOR		1					
53	014-854	MD2219	Q3	TRANSISTOR		1					
54	014-859	2N4208	Q25	TRANSISTOR		1					
55	014-715		Q13,16,17,21,25,26,32,33	MOUNTING PAD, Transistor		8					
58	030-966		C18,22-24,28-30,32,35,71-75,79,82,36,33	CAPACITOR, Ceramic, 0.01 $\mu$ F, 100V, $\pm$ 10%		18					
60	030-968		C15,17,76-78,80,83	CAPACITOR, Ceramic, 0.033 $\mu$ F, 100V $\pm$ 10%		7					
61	034-181		C87	CAPACITOR, Mica, 47PF, 500V, $\pm$ .5PF		1					
62	034-184		C10	CAPACITOR, Mica, 68PF, 500V, 5%		1					
63	034-345		C34	CAPACITOR, Dip Mica, 3PF, 500V, $\pm$ 0.5PF		1					
65	034-532		C88	CAPACITOR, Mica, 1 PF, 500V, $\pm$ 0.5PF		1					
66	034-297		C52	CAPACITOR, Dip Mica, 180PF, 500V, $\pm$ 1%		1					
68	034-543		C44,45	CAPACITOR, Dip Mica, 240PF, 500V, $\pm$ 1%		2					
69	034-945		C12,19,21	CAPACITOR, Dip Mica, 12PF, 500V, $\pm$ 0.5PF		3					
71	034-206		C26	CAPACITOR, Dip Mica, 15PF, 500V, $\pm$ 0.5PF		1					
72	034-181		C5	CAPACITOR, Dip Mica, 47PF, 500V, $\pm$ 0.5PF		1					
73	037-472		C70	CAPACITOR, Tantalum, 4.7 $\mu$ F, 10V, $\pm$ 10%		1					
74	037-507		C11,55,68,69	CAPACITOR, Tantalum, 150 $\mu$ F, 15V, $\pm$ 10%		4					
75	037-740		C3,7,66,67	CAPACITOR, Tantalum, 33 $\mu$ F, 10V, $\pm$ 10%		4					
77	037-991		C8,9,31,84	CAPACITOR, Tantalum, 22 $\mu$ F, 15V, $\pm$ 10%		4					

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DOUBLER/DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 228)					CATALOG NO. X1364642		SHEET 3 OF 7						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
78	037-995		C13	CAPACITOR, Tantalum, 400μF, 15V		1							
79	034-215		C1,86	CAPACITOR, Mica, 10PF, 500V, 5%		2							
80	034-934		C85	CAPACITOR, Mica, 360PF, 500V, 5%		1							
85	038-282		C2	CAPACITOR, Variable, 1.0 - 14PF		1							
86	038-274		C25	CAPACITOR, Variable, 2-8PF		1							
87	038-281		C27	CAPACITOR, Variable, 1.2 - 10PF		1							
90	041-098		R62	RESISTOR, 220 ohm, 1W, ±5%		1							
91	041-007		R9,90,91,97,101	RESISTOR, 750 ohm, 1/2W, ±5%		5							
92	041-101		R61	RESISTOR, 620 ohm, 1W, ±5%		1							
93	041-102		R126	RESISTOR, 1000 ohm, 1W, ±5%		1							
94	041-239		R127	RESISTOR, 2.2K ohm, 1/2W, ±5%		1							
95	041-316		R17	RESISTOR, 2.4K ohm, 1/2W, ±5%		1							
96	041-317		R113	RESISTOR, 820 ohm, 1/2W, ±5%		1							
97	041-329		R52	RESISTOR, 330 ohm, 1/2W, ±5%		1							
98	041-379		R69	RESISTOR, 430 ohm, 1/2W, ±5%		1							
99	041-404		R74,75	RESISTOR, 510 ohm, 1/2W, ±5%		2							
100	041-405		R65	RESISTOR, 1.2K ohm, 1/2W, ±5%		1							
101	041-417		R112	RESISTOR, 390 ohm, 1/4W, ±5%		1							
102	041-419		R28,31,92,93	RESISTOR, 100 ohm, 1/4W, ±5%		4							
103	041-425		R80,81,99,100,102,103,117	RESISTOR, 47 ohm, 1/4W, ±5%		7							
104	041-430		R124	RESISTOR, 1.5K ohm, 1/4W, ±5%		1							
105	041-437		R16,39,48	RESISTOR, 1.6K ohm, 1/4W, ±5%		3							
106	041-457		R125	RESISTOR, 390 ohm, 1W, ±5%		1							
107	041-462		R10,11	RESISTOR, 1.3K ohm, 1/2W, ±5%		2							
108	041-496		R34,35	RESISTOR, 10 ohm, 1/4W, ±5%		2							
109	041-497		R109,133	RESISTOR, 560 ohm, 1/4W, ±5%		2							
110	041-500		R119	RESISTOR, 510 ohm, 1W, ±5%		1							
111	041-502		R64,66	RESISTOR, 240 ohm, 1/4W, ±5%		2							
112	014-522		R15	RESISTOR, 910 ohm, 1/2W, ±5%		1							
113	041-531		R25	RESISTOR, 750 ohm, 1/4W, ±5%		1							
114	041-532		R118	RESISTOR, 910 ohm, 1/4W, ±5%		1							
115	041-539		R78,79,114	RESISTOR, 130 ohm, 1/4W, ±5%		3							
116	041-547		R122	RESISTOR, 18 ohm, 1/4W, ±5%		1							
117	041-550		R26,27	RESISTOR, 3K ohm, 1/4W, ±5%		2							

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DOUBLER/DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 228)						CATALOG NO. X1364642		SHEET 4 OF 7				
								NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
118	041-554		R37,47,72,85,87,129	RESISTOR, 51 ohm, 1/4W, ±5%		6						
119	058-723		R12	RESISTOR, Variable, 500 ohm, 1W, 10%		1						
120	041-560		R110	RESISTOR, 2K ohm, 1/4W, ±5%		1						
121	041-647		R29,83	RESISTOR, 75 ohm, 1/4W, ±5%		2						
122	041-750		R7	RESISTOR, 24K ohm, 1/4W, ±5%		1						
123	041-834		R63	RESISTOR, 1.1K ohm, 1W, ±5%		1						
124	041-986		R50	RESISTOR, 1.3K ohm, 1W, ±5%		1						
125	041-348		R120	RESISTOR, 110 ohm, 1W, ±5%		1						
126	041-593		R86	RESISTOR, 110 ohm, 1/2W, ±5%		1						
127	041-410		R14	RESISTOR, 1K ohm, 1/4W, ±5%		1						
129	048-001		R111	RESISTOR, Metal Film, 1.37K ohm, 1/2W, ±1%		1						
130	048-131		R2,3,55,67	RESISTOR, Metal Film, 1.21K ohm, 1/2W, ±1%		4						
131	048-703		R44	RESISTOR, Metal Film, 1.30K ohm, 1/2W, ±1%		1						
132	041-408		R132	RESISTOR, 10K ohm, 1/4W, ±5%		1						
133	049-574		R1,4-6	RESISTOR, 1 ohm, 1/2W, ±5%		4						
134	041-508		R21,23	RESISTOR, 20K ohm, 1/4W, ±5%		2						
135	059-367		R42	RESISTOR, Wirewound, 360 ohm, 3W, ±3%		1						
136	051-326		L19	INDUCTOR, Fixed, 0.15μH		1						
137	051-338		L20,22	INDUCTOR, Fixed, 22μH		2						
138	051-329		L1	INDUCTOR, Fixed, 1.0μH		1						
139	051-516		L18	INDUCTOR, Fixed, 0.56μH		1						
140	051-838		L3	INDUCTOR, Variable, .47μH		1						
141	540-088		L21	INDUCTOR, Variable, .22μH		1						
142	616-569			CABLE, Coaxial	A/R							
143	173-012		E3-6	TERMINAL STUD, Turret		4						
144	062-044		R22	RESISTOR, Metal Film, 402 ohm, 1/8W, ±1%		1						
145	056-022		C4,42,81	CAPACITOR, Dip Mica, 6.8PF, 500V, ±0.5PF		3						
146	056-105		C40,41	CAPACITOR, Dip Mica, 18PF, 500V, ±0.5PF		2						
147	056-140		C38,39	CAPACITOR, Dip Mica, 20PF, 500V, ±0.5PF		2						
148	056-239		C14,16,37,56,57,59,61	CAPACITOR, Dip Mica, 10PF, 500V, ±0.5PF		7						

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DOUBLER/DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 228)						CATALOG NO. X1364642		SHEET 5 OF 7			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
149	056-392	CA3049	C43,53	CAPACITOR, Dip Mica, 95PF, 500V, $\pm 1\%$		2					
150	056-435		C6	CAPACITOR, Dip Mica, 585PF, 300V, $\pm 1\%$		1					
151	056-436		C20	CAPACITOR, Dip Mica, 1686PF, 300V, $\pm 0.25\%$		1					
152	057-545		R51	RESISTOR, Metal Film, 110 ohm, 1/2W, $\pm 1\%$		1					
153	057-521		R88	RESISTOR, Metal Film, 210 ohm, 1/2W, $\pm 1\%$		1					
154	057-195		R24,30	RESISTOR, Metal Film, 100 ohm, 1/8W, $\pm 1\%$		2					
155	057-196		R104,106	RESISTOR, Metal Film, 162 ohm, 1/8W, $\pm 1\%$		2					
157	057-562		R68	RESISTOR, Metal Film, 806 ohm, 1/2W, $\pm 1\%$		1					
158	057-498		R38,49	RESISTOR, Metal Film, 866 ohm, 1/2W, $\pm 1\%$		2					
159	057-512		R18	RESISTOR, Metal Film, 536 ohm, 1/8W, $\pm 1\%$		1					
161	057-560		R128	RESISTOR, Metal Film, 931 ohm, 1/2W, $\pm 1\%$		1					
162	057-714		R82	RESISTOR, Metal Film, 178 ohm, 1/2W, $\pm 1\%$		1					
163	057-224		R40,57	RESISTOR, Metal Film, 301 ohm, 1/8W, $\pm 1\%$		2					
164	058-573		R108	RESISTOR, Variable, 100 ohm, 1/2W, $\pm 10\%$		1					
165	058-517		R58	RESISTOR, Variable, 10 ohm, 1/2W, $\pm 10\%$		1					
166	058-564		R76	RESISTOR, Variable, 500 ohm, 1/2W, $\pm 10\%$		1					
168	615-002			WIRE, Bare, 22 AWG		A/R					
169	586-446		A1	INTEGRATED CIRCUIT		1					
170	932-034		FB7-12,19,20,25,26	FERRITE BEAD, .250 long		10					
171	042-762		R131	RESISTOR, Metal Film, 169 ohm, 1/8W, $\pm 1\%$		1					
172	062-152		R53	RESISTOR, Metal Film, 147 ohm, 1/8W, $\pm 1\%$		1					
173	932-037		Ref. Bases of: Q27,28	FERRITE BEAD, .062 long		4					
174	471-574			SCREW, Machine, slotted, binder head, 2-56 x .188		2					
175	492-007			NUT, Plain, hex, 2-56		2					

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DOUBLER/DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 228)					CATALOG NO. X1364642		SHEET 6 OF 7					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
176	062-151		R20,54	RESISTOR, Metal Film, 75 ohm, 1/8W, ±1%		2						
177	066-110		R32	RESISTOR, Metal Film, 340 ohm, 1/8W, ±1%		1						
178	048-954		R56	RESISTOR, Metal Film, 511 ohm, 1/4W, ±1%		1						
179	062-417		R43	RESISTOR, Metal Film, 309 ohm, 1/2W, ±1%		1						
180	062-424		R33,41,77,89,115,116,121	RESISTOR, Metal Film, 47.5 ohm, 1/8W, ±1%		7						
181	062-425		R73,94,96	RESISTOR, Metal Film, 49.9 ohm, 1/8W, ±1%		3						
183	062-472		R60	RESISTOR, Metal Film, 51.1 ohm, 1/8W, ±1%		1						
184	062-477		R59	RESISTOR, Metal Film, 124 ohm, 1/8W, ±1%		1						
185	062-531		R95,98	RESISTOR, Metal Film, 44.2 ohm, 1/8W, ±1%		2						
186	062-533		R19,84	RESISTOR, Metal Film, 150 ohm, 1/8W, ±1%		2						
187	062-546		R105,107	RESISTOR, Metal Film, 210 ohm, 1/8W, ±1%		2						
188	062-695		R130	RESISTOR, Metal Film, 66.5 ohm, 1/8W, ±1%		1						
189	062-577		R13	RESISTOR, Metal Film, 196 ohm, 1/8W, ±1%		1						
190	062-578		R8	RESISTOR, Metal Film, 432 ohm, 1/8W, ±1%		1						
191	062-629		R36,46	RESISTOR, Metal Film, 178 ohm, 1/8W, ±0.25%		2						
192	062-632		R45	RESISTOR, Metal Film, 10 ohm, 1/2W, ±0.25%		1						
193	062-648		R71	RESISTOR, Metal Film, 45.3 ohm, 1/8W, ±1%		1						
194	064-004		C46-51,54,58,60,62-65	CAPACITOR, Ceramic, 0.1μF,100V,±10%		13						
195	143-981		TP1,J9,12-19,21-24	PIN, Socket		34						
196	166-219		TP2-5,J10,11,J20,25	CONNECTOR, Coaxial		8						
197	062-700		R70	RESISTOR, Metal Film, 143 ohm, 1/8W, ±1%		1						
198	062-650		R123	RESISTOR, Metal Film, 309 ohm, 1/8W, ±1%		1						
199	280-130		Q1,6,18,19,23,24,29,30	MOUNTING PAD, Transistor		8						
200	280-998		Q5,11,14	MOUNTING PAD, Transistor		3						

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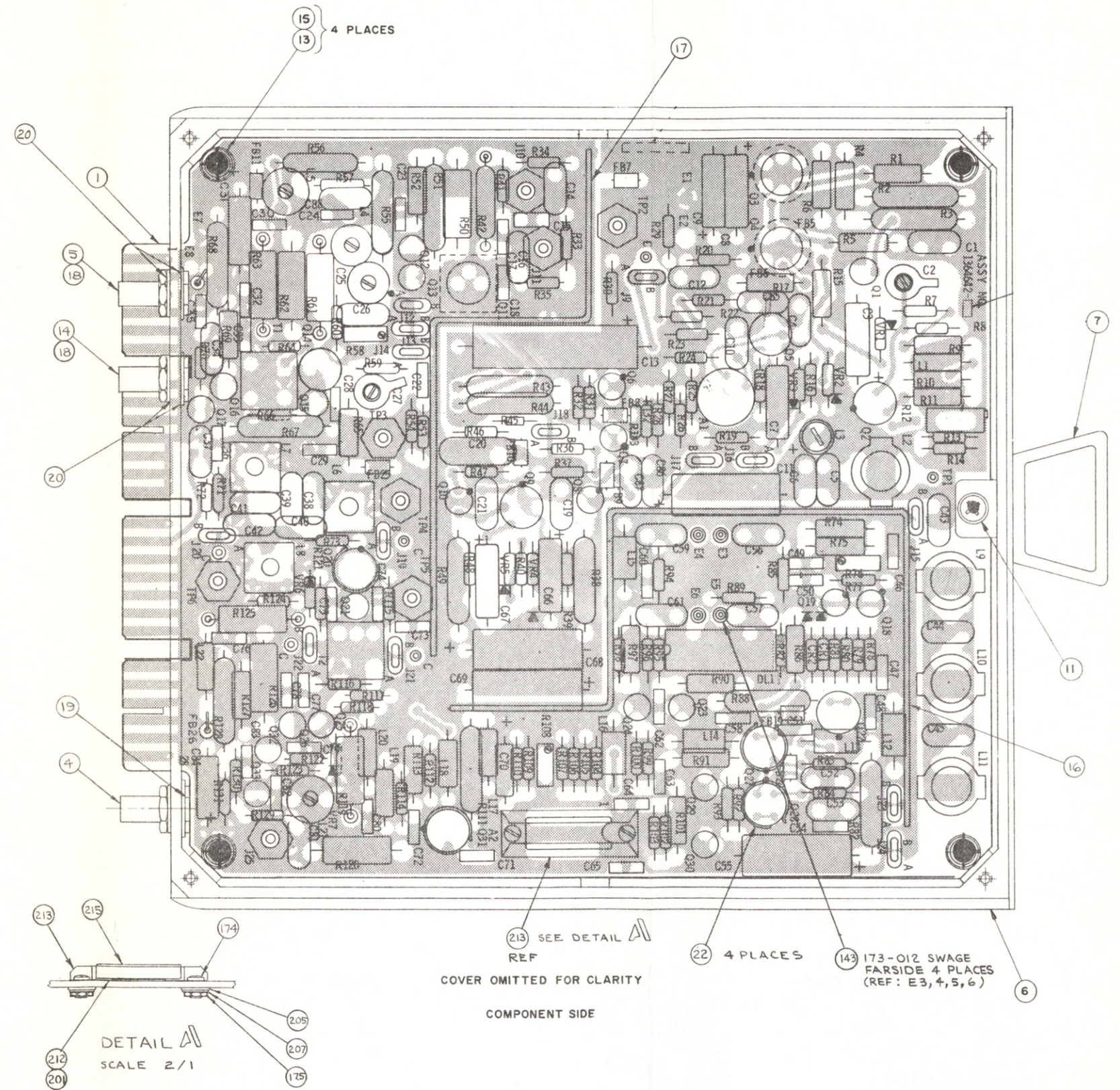
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DOUBLER/DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 228)					CATALOG NO. X1364642	SHEET 7 OF 7							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
201	087-063			SILICONE, Grease		A/R							
202	540-006		L17	INDUCTOR, Fixed, 100μH		1							
204	051-725		L5	INDUCTOR, Variable, .22μH		1							
205	501-155			WASHER, Plain, No. 2		2							
206	560-295		T1,2	TRANSFORMER		2							
207	502-023			WASHER, Lock, internal tooth, No. 2		2							
208	580-106	2N3866	Q11,14	TRANSISTOR		2							
209	580-169	MD918	Q31	TRANSISTOR		1							
210	580-251	2N3959	Q23,24,29,30	TRANSISTOR		4							
211	580-292		Q9,22,27,28	TRANSISTOR		4							
212	586-465		A2	BASE CONDUCTION, Integrated Circuit Part		1							
213	586-466		A2	CLIP, Retaining, integrated circuit part		1							
214	586-201		A1	MOUNTING PAD, Integrated Circuit		1							
215	586-484	MC1227L	A2	INTEGRATED CIRCUIT		1							
216	602-012		J1,6,7,9-19	PLUG, Jumper		14							
217	932-035		Ref Bases of: Q2-4,7-10,14,15	FERRITE BEAD		13							
218	1367735-01		DL1	DELAY LINE		1							

X1364642E



AMPEX



Doubler/Demodulator Printed Wiring Assembly  
(Module 228)  
Drawing No. 1364642E



32 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)					CATALOG NO. X1366778		SHEET 1 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
2	1366779	051-800		SCHEMATIC		REF						
6	1365026-06			DELAY LINE, Ultrasonic		1						
7	1366805-02			MODULE, Preamplifier		1						
8	1368705-01			INDUCTOR, Fixed, precision		3						
9	1366810-02			SHIELD, Delay Module, left		1						
10	1366811-01			SHIELD, Delay Module, right		1						
11	1366812-03			INDUCTOR, Pretuned		2						
12	1366814-11			CABLE ASSEMBLY, 50 ohm		1						
13	1366814-40			CABLE ASSEMBLY, 50 ohm		1						
14	1366816-01			COVER, Module		1						
15	1366816-03			COVER, Module		1						
16	1366817-01			CLIP, Ground, transistor		1						
20	103307-01			STANDOFF, .25 Long		6						
21	103307-02			STANDOFF, .125 Long		2						
23	013-166			DIODE, Zener, 3.3V		1						
26	014-613			HEATSINK, Transistor, MW cooler		3						
27	014-715			SPACER, Transistor		6						
28	014-783			SPACER, Transistor		1						
31	018-285			ADHESIVE, Thread Locking		A/R						
33	030-966			CAPACITOR, Ceramic, .01 $\mu$ F, 100V, 10%		45						
34	030-968			CAPACITOR, Ceramic, .033 $\mu$ F, 100V, 10%		2						
37	034-156			CAPACITOR, Mica, 5PF, 500V, .5PF		1						
38	034-182			CAPACITOR, Mica, 56PF, 500V, 5%		1						
40	034-215			CAPACITOR, Mica, 10PF, 500V, 5%		2						
41	034-269			CAPACITOR, Mica, 22PF, 500V, 5%		1						
42	034-532			CAPACITOR, Mica, 1PF, 500V, .5PF		1						
43	034-788			CAPACITOR, Mica, 27PF, 500V, 2%		3						
44	034-945			CAPACITOR, Mica, 12PF, 500V, .5PF		2						
47	038-275			CAPACITOR, Variable, 5.5 - 18PF		1						
48	038-277			CAPACITOR, Variable, 9 - 35PF		1						
51	041-003			RESISTOR, Comp., 100 ohm, 1/2W, 5%		1						
52	041-009			RESISTOR, Comp., 1.8K ohm, 1/2W, 5%		1						
53	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2						
54	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		2						
55	041-331			RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		1						
56	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1						

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32 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)				CATALOG NO. X1366778		SHEET 2 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
58	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2					
59	041-417			RESISTOR, Comp., 390 ohm, 1/4W, 5%		1					
60	041-425			RESISTOR, Comp., 47 ohm, 1/4W, 5%		1					
61	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2					
62	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		2					
63	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1					
64	041-442			RESISTOR, Comp., 2700 ohm, 1/4W, 5%		1					
65	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1					
66	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2					
67	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1					
68	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		1					
69	041-559			RESISTOR, Comp., 120 ohm, 1/4W, 5%		1					
70	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1					
71	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1					
72	041-697			RESISTOR, Comp., 100 ohm, 1/8W, 5%		1					
73	041-733			RESISTOR, Comp., 56 ohm, 1/4W, 5%		1					
74	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1					
75	041-995			RESISTOR, Comp., 430 ohm, 2W, 5%		1					
78	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		2					
79	048-585			RESISTOR, Metal Film, 30.1 ohm, 1/8W, 1%		2					
80	048-131			RESISTOR, Metal Film, 1.21K ohm, 1/2W, 1%		3					
81	048-136			RESISTOR, Metal Film, 681 ohm, 1/2W, 1%		1					
82	048-154			RESISTOR, Metal Film, 1.1K ohm, 1/2W, 1%		1					
83	048-403			RESISTOR, Metal Film, 499 ohm, 1/2W, 1%		1					
84	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1					
85	048-669			RESISTOR, Metal Film, 845 ohm, 1/2W, 1%		1					
86	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1					
87	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2					
89	049-402			RESISTOR, Comp., 47 ohm, 1/8W, 5%		1					
90	049-597			RESISTOR, Comp., 160 ohm, 1W, 5%		1					
91	049-598			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1					

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32 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)					CATALOG NO. X1366778		SHEET 3 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
92	049-599			RESISTOR, Comp., 510 ohm, 2W, 5%		1							
93	049-600			RESISTOR, Comp., 22 ohm, 1/8W, 5%		6							
96	051-717			INDUCTOR, Variable, 0.47 $\mu$ H		1							
97	051-724			INDUCTOR, Variable, 0.15 $\mu$ H		1							
98	051-725			INDUCTOR, Variable, 0.22 $\mu$ H		1							
99	051-727			INDUCTOR, Variable, 0.33 $\mu$ H		3							
100	051-751			INDUCTOR, Fixed, 22 $\mu$ H, 10%		1							
101	051-800			INDUCTOR, Variable, 0.05 - 0.10 $\mu$ H		1							
104	056-022			CAPACITOR, Mica, 6.8PF, 500V, .5PF		1							
105	056-388			CAPACITOR, Mica, 8.2PF, 500V, .5PF		1							
106	056-465			CAPACITOR, Mica, 13PF, 500V, .5PF		2							
109	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4							
110	057-196			RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		1							
111	057-513			RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		1							
115	058-516			RESISTOR, Variable, 50 ohm, 1/2W, 10%		3							
116	058-518			RESISTOR, Variable, 100 ohm, 1/2W, 5%		2							
117	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1							
118	058-538			RESISTOR, Variable, 200 ohm, 1/2W, 10%		1							
122	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		4							
123	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		4							
124	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1							
125	062-379			RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		2							
126	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1							
127	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2							
128	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1							
129	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2							
130	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1							
131	062-522			RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		1							
132	062-523			RESISTOR, Metal Film, 422 ohm, 1/8W, 1%		1							

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32 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)				CATALOG NO. X1366778		SHEET 4 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
133	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		1					
134	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1					
135	062-627			RESISTOR, Metal Film, 374 ohm, 1/8W, 1%		1					
138	066-066			RESISTOR, Metal Film, 1.18K ohm, 1/2W, 1%		1					
139	066-067			RESISTOR, Metal Film, 60.4 ohm, 1/8W, 1%		1					
142	087-063			GREASE, Silicone, DC-4		A/R					
146	139-045			CONNECTOR, Printed Wiring Board, right angle, 50 ohm		1					
147	139-238			CONNECTOR, Jack, for .025 diameter pin		3					
148	143-981			CONNECTOR, Jack, for .040 diameter pin		26					
149	166-219			CONNECTOR, Printed Wiring Board, straight, 50 ohm		8					
151	280-998			SPACER, Transistor		7					
153	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
154	471-559			SCREW, Binder Head, slot, 4-40 x .375		7					
155	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
156	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2					
157	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4					
158	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2					
162	496-004			NUT, Assembled Washer, 4-40		1					
164	501-008			WASHER, Flat, #4		4					
165	501-712			WASHER, Flat, brass, .032 thick		1					
166	501-715			WASHER, Shoulder, nylon		2					
167	501-740			WASHER, Flat, aluminum, 9-32 x .016		1					
171	540-052			INDUCTOR, Fixed, 6.8 $\mu$ H, 10%		2					
173	560-295			TRANSFORMER, BT8		1					
176	580-106	2N3866		TRANSISTOR		3					
177	580-124	2N5160		TRANSISTOR		1					
178	580-169	MD918		TRANSISTOR, Dual		1					
179	580-280	MM1607		TRANSISTOR		14					
180	580-292			TRANSISTOR		1					
181	580-348			HEATSINK, Transistor		1					

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32 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)					CATALOG NO. X1366778		SHEET 5 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
185	600-161			SLEEVING, Extruded, #22		A/R					
187	602-012			CONNECTOR, Plug, shorting, red		9					
189	615-002			WIRE, Bare, solid, 22 AWG		A/R					
192	932-034			FERRITE BEAD, .236 Long		12					
193	932-035			FERRITE BEAD, .118 Long		10					
194	932-037			FERRITE BEAD, .050 Long		2					

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32 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)					CATALOG NO. X1369444	SHEET 1 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
2	1369445			SCHEMATIC		REF					
17	1365026-06			DELAY LINE, Ultrasonic		1					
18	1366805-02			MODULE, Preamplifier, 60 MHz		1					
19	1366810-03			SHIELD, Delay Module, left		1					
20	1366812-03			INDUCTOR, Fixed, precision		2					
21	1366814-09			CABLE ASSEMBLY, 50 ohm		1					
22	1366814-46			CABLE ASSEMBLY, 50 ohm		1					
23	1366817-01			SPRING, Ground Clip		2					
24	1366881-04			CABLE ASSEMBLY, 50 ohm		1					
25	1368188-83			LABEL, Module		1					
26	1368260-01			OVERLAY, Blank		1					
27	1369425-01			PRINTED WIRING ASSEMBLY, Double Tuned Equalizer		A/R					
28	1369427-01			PRINTED WIRING ASSEMBLY, Single Tuned Equalizer		A/R					
29	1369429-01			PRINTED WIRING ASSEMBLY, Peaking Equalizer		A/R					
30	1369431-01			PRINTED WIRING ASSEMBLY, Slope Equalizer		A/R					
31	1369448-01			SHIELD, Delay Module, right		1					
32	1369449-01			COVER, Module, bottom		1					
33	1369449-02			COVER, Module, top		1					
36	013-166			DIODE, Zener, 3.3V		1					
40	014-613			HEATSINK, Transistor, MW cooler		3					
41	014-715			MOUNTING PAD, Transistor		2					
42	014-783			MOUNTING PAD, Transistor		1					
54	030-966			CAPACITOR, Ceramic, .01 $\mu$ F, 100V, 10%		31					
55	030-968			CAPACITOR, Ceramic, .033 $\mu$ F, 100V, 10%		2					
56	030-970			CAPACITOR, Ceramic, .01 $\mu$ F, 100V, 10%		7					
63	034-185			CAPACITOR, Mica, 75PF, 500V, $\pm$ 5%		1					
64	034-215			CAPACITOR, Mica, 10PF, 500V, $\pm$ 5%		1					
65	034-345			CAPACITOR, Mica, 3PF, 500V, $\pm$ .5PF		1					
66	034-532			CAPACITOR, Mica, 1PF, 500V, $\pm$ .5PF		1					
67	034-788			CAPACITOR, Mica, 27PF, 500V, $\pm$ 2%		1					
68	034-759			CAPACITOR, Mica, 15PF, 500V, $\pm$ .5PF		1					
73	038-275			CAPACITOR, Variable, 5.5 - 18PF		1					
74	038-291			CAPACITOR, Variable, .5 - 3.5PF		1					

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32 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)					CATALOG NO. X1369444		SHEET 2 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
75	038-292			CAPACITOR, Variable, 1 - 10PF		1					
83	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2					
84	041-317			RESISTOR, Comp., 820 ohm, 1/2W, 5%		1					
85	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		1					
86	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1					
87	041-355			RESISTOR, Comp., 1.2K ohm, 1W, 5%		1					
88	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2					
89	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2					
90	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		1					
91	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1					
92	041-478			RESISTOR, Comp., 1.1K ohm, 1/2W, 5%		1					
93	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1					
94	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2					
95	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1					
96	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		2					
97	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1					
98	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1					
99	041-734			RESISTOR, Comp., 62 ohm, 1/4W, 5%		1					
100	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1					
101	041-983			RESISTOR, Comp., 300 ohm, 1W, 5%		1					
102	041-986			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1					
107	042-759			RESISTOR, Metal Film, 43.2 ohm, 1/8W, 1%		1					
108	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		3					
109	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1					
111	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1					
112	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2					
119	049-602			RESISTOR, Comp., 150 ohm, 1/8W, 5%		1					
124	051-718			INDUCTOR, Variable, 0.68 $\mu$ H		2					
125	051-727			INDUCTOR, Variable, 0.33 $\mu$ H		3					
126	051-751			INDUCTOR, Fixed, 22 $\mu$ H, 10%		1					
127	051-798			INDUCTOR, Variable, 1.0 $\mu$ H		1					
128	051-800			INDUCTOR, Variable, .05 - .10 $\mu$ H		1					

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10-622C

UPDATED FEB. 1971

32 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)					CATALOG NO. X1369444		SHEET 3 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
134	056-022			CAPACITOR, Mica, 6.8PF, 500V, ±.5PF		1						
135	056-388			CAPACITOR, Mica, 8.2PF, 500V, ±.5PF		2						
136	056-465			CAPACITOR, Mica, 13PF, 500V, ±.5PF		2						
142	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		2						
143	057-224			RESISTOR, Metal Film,, 301 ohm, 1/8W, 1%		1						
149	058-517			RESISTOR, Variable, 10 ohm, 1/2W, 10%		1						
150	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1						
156	059-413			RESISTOR, Wirewound, 390 ohm, 3W, 3%		1						
157	059-414			RESISTOR, Wirewound, 432 ohm, 3W, 3%		1						
162	062-256			RESISTOR, Metal Film, 1.27K ohm, 1/4W, 1%		2						
163	062-044			RESISTOR, Metal Film, 402 ohm, 1/8W, 1%		1						
164	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		1						
165	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		1						
166	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1						
167	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1						
168	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2						
169	062-453			RESISTOR, Metal Film, 475 ohm, 1/8W, 1%		1						
170	062-472			RESISTOR, Metal Film, 51.1 ohm, 1/8W, 1%		1						
171	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1						
172	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2						
173	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1						
174	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		2						
175	062-648			RESISTOR, Metal Film, 45.3 ohm, 1/8W, 1%		1						
176	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1						
177	062-734			RESISTOR, Metal Film, 95.3 ohm, 1/8W, 1%		1						
178	062-768			RESISTOR, Metal Film, 255 ohm, 1/8W, 1%		1						

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32 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)					CATALOG NO. X1369444		SHEET 4 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
179	066-110			RESISTOR, Metal Film, 340 ohm, 1/8W, 1%		1							
180	066-164			RESISTOR, Metal Film, 210 ohm, 1/4W, 1%		1							
181	066-047			RESISTOR, Metal Film, 32.4 ohm, 1/8W, 1%		1							
186	087-063			GREASE, General Purpose, #4, silicone		A/R							
192	139-045			CONNECTOR, RF Receptacle, right angle, 50 ohm		1							
193	139-238			CONNECTOR, Jack, tip		3							
194	143-981			CONNECTOR, Jack, tip		24							
200	166-219			CONNECTOR, RF Receptacle, straight, 50 ohm		8							
206	280-576			SPACER, Swage, 2-56 x 3/32		6							
207	280-998			MOUNTING PAD, Transistor		6							
213	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
214	471-559			SCREW, Binder Head, slot, 4-40 x .375		7							
215	472-113			SCREW, Cross-Recessed, pan head, 2-56 x .250		A/R							
216	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4							
217	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2							
218	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4							
219	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2							
225	496-004			NUT, Assembled Washer, 4-40		1							
231	501-008			WASHER, Plain, #4		4							
232	501-712			WASHER, Plain, brass, 1/4 x .032 thick		1							
233	501-715			WASHER, Shoulder, nylon, 1/4 x .062 thick		2							
234	501-740			WASHER, Flat, aluminum, 1/4 x .016		1							
235	502-094			WASHER, Lock, helical spring, #2		A/R							
241	540-052			INDUCTOR, Fixed, 6.8μH, 10%		2							
244	560-295			TRANSFORMER, Balanced, 50/200 ohm ct		1							
247	580-106	2N3866		TRANSISTOR		3							
248	580-124	2N5160		TRANSISTOR		1							
249	580-169	MD918		TRANSISTOR, Dual		1							
250	580-280	MM1607		TRANSISTOR		9							
251	580-292			TRANSISTOR		1							

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32 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 229)					CATALOG NO. X1369444		SHEET 5 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
252	580-348			HEATSINK, Transistor		1					
255	600-161			SLEEVING, Teflon, #22		A/R					
256	602-012			CONNECTOR, Plug, shorting, red		4					
257	615-002			WIRE, Uninsulated, solid, 22 AWG		A/R					
259	932-034			FERRITE BEAD, .236 Long		11					
260	932-035			FERRITE BEAD, .118 Long		10					
261	932-037			FERRITE BEAD, .055 Long		2					

X1369444-

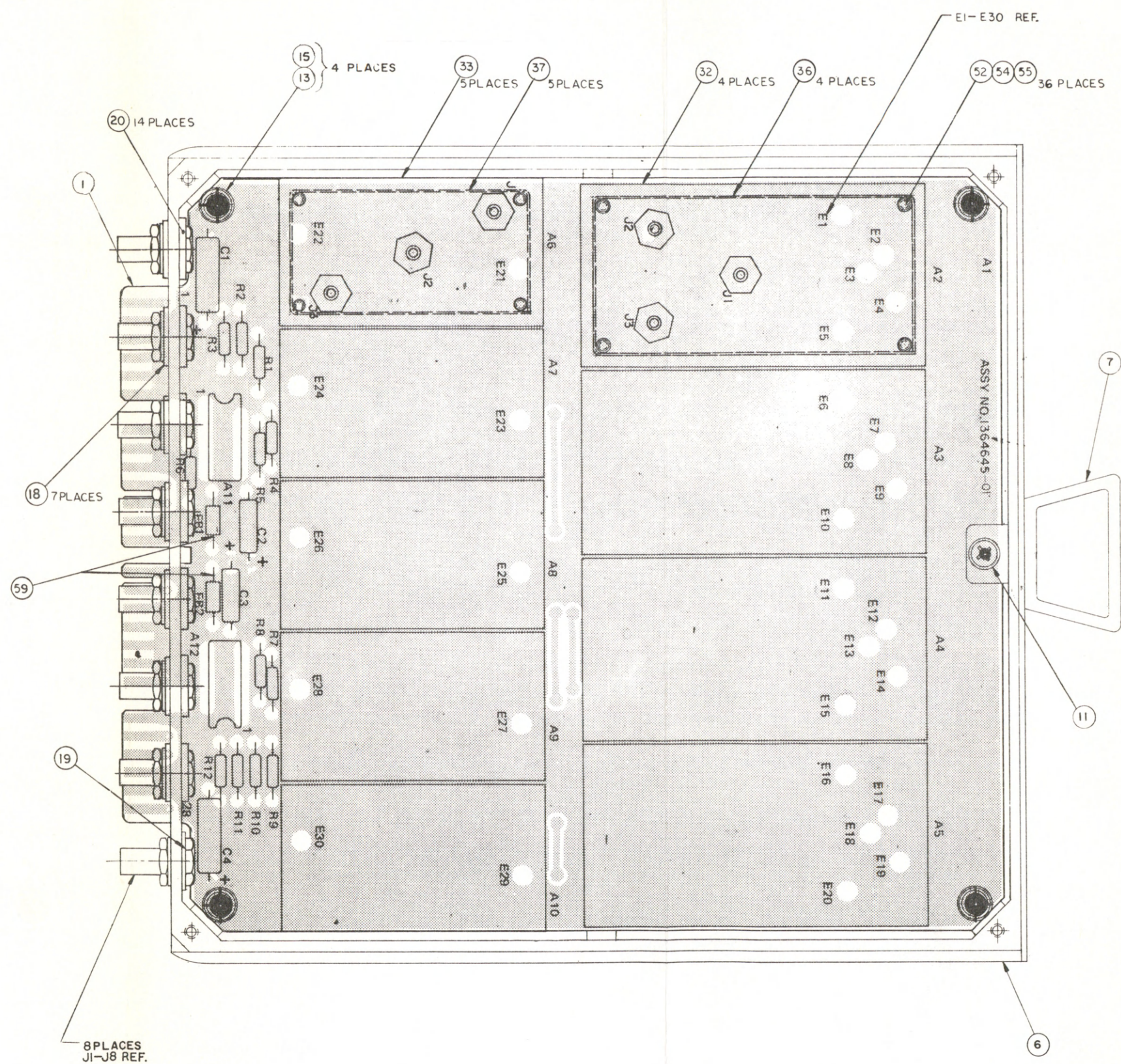
SWITCHER/LIMITER 1 PRINTED WIRING ASSEMBLY (MODULE 230)					CATALOG NO. 1364645	SHEET 1 OF 1 NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364647			SCHEMATIC		REF							
4	1368188-76			LABEL, Module		1							
5	1368260-01			OVERLAY, Module		1							
6	1363789-01			FRAME, Module		1							
7	1363791-01			HANDLE, Printed Wiring Board		1							
8	1365046-01			COVER, Module		2							
11	473-325			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .312		1							
12	471-325			SCREW, Cross-Recess, flat head, 4-40 x .188		8							
13	473-324			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .250		4							
15	501-008			WASHER, Plain, #4		4							
18	501-740			WASHER, Flat		7							
19	501-712			WASHER, Flat, brass, .032 thk		1							
20	501-715			WASHER, Shoulder, Nylon		14							
24	1366814-02			CABLE ASSEMBLY, 50 ohm		2							
25	1366814-06			CABLE ASSEMBLY, 50 ohm		1							
26	1366814-08			CABLE ASSEMBLY, 50 ohm		2							
27	1366814-11			CABLE ASSEMBLY, 50 ohm		1							
28	1366814-30			CABLE ASSEMBLY, 50 ohm		1							
29	1366814-32			CABLE ASSEMBLY, 50 ohm		1							
32	1367080-01		A2-5	PRINTED WIRING ASSEMBLY, Switcher		4							
33	1367082-01		A6-10	PRINTED WIRING ASSEMBLY, Limiter		5							
36	1367094-01			SHIELD, Switcher		4							
37	1367095-01			SHIELD, Limiter		5							
38	1367096-04			CABLE ASSEMBLY, 50 ohm		1							
39	1367096-05			CABLE ASSEMBLY, 50 ohm		1							
40	1367096-06			CABLE ASSEMBLY, 50 ohm		1							
41	1367096-08			CABLE ASSEMBLY, 50 ohm		1							
42	1367096-16			CABLE ASSEMBLY, 50 ohm		1							
43	1367096-21			CABLE ASSEMBLY, 50 ohm		2							
44	1367096-25			CABLE ASSEMBLY, 50 ohm		1							
45	1367096-15			CABLE ASSEMBLY, 50 ohm		1							
46	037-472		C2,3	CAPACITOR, Tantalum, 4.7μF, 10V, ±10%		2							
47	037-991		C1,4	CAPACITOR, Tantalum, 22μF, 15V, ±10%		2							
49	041-419		R1,6,9,10	RESISTOR, Fixed, 100 ohm, 1/4W, ±5%		4							
50	041-425		R2-5,7,8,11,12	RESISTOR, Fixed, 47 ohm, 1/4W, ±5%		8							
52	472-113			SCREW, Cross-Recess, pan head, 2-56 x .250		36							
54	501-233			WASHER, Flat, #2		36							
55	502-023			WASHER, Internal Tooth, #2		36							
57	586-488	MC1235L	A11,12	INTEGRATED CIRCUIT		2							
61	932-034		FB1,2	FERRITE BEAD		2							
63	1368238-01			INSULATOR, Cover		1							

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10-623/624



AMPEX



Switcher/Limiter Printed Wiring Assembly (Module 230)  
Dwg. No. 1364645

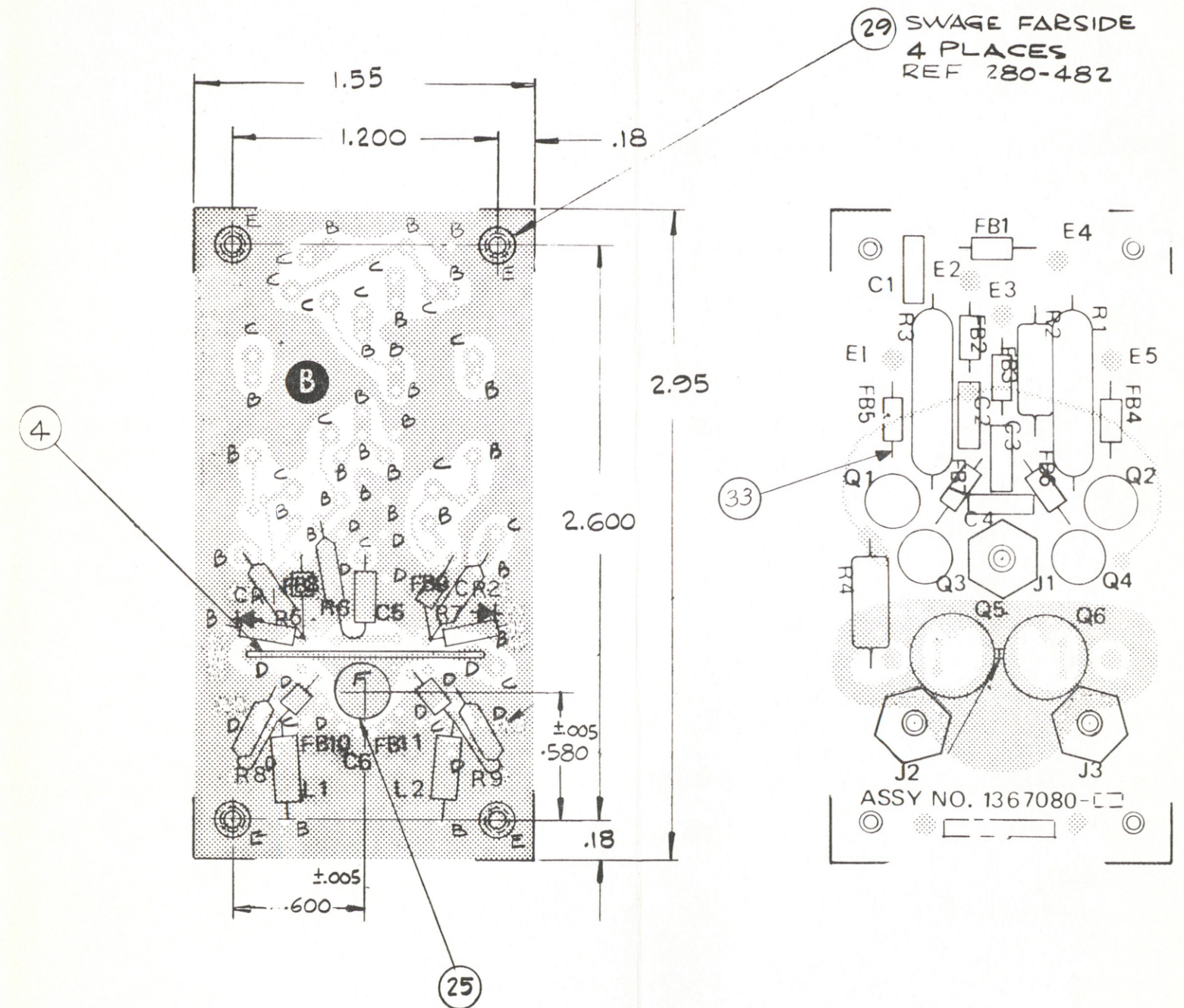


SWITCHER PRINTED WIRING ASSEMBLY						CATALOG NO. 1367080		SHEET 1 OF 1					
								NHA 1364645					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
2	1367081	FD700	CR1, 2	SCHEMATIC		REF							
4	1367097-01			SHIELD, Fence		1							
7	013-782			DIODE		2							
9	014-581			TRANSISTOR		2							
11	030-966			C1-4		CAPACITOR, Ceramic, Rectangular, .01μF, 100V, ±10%	4						
12	030-970			C5		CAPACITOR, Ceramic, Tubular, .01μF, 100V, ±10%	1						
14	041-007			R2		RESISTOR, Fixed, 750Ω, 1/2W, ±5%	1						
15	041-317			R4		RESISTOR, Fixed, 820Ω, 1/2W, ±5%	1						
17	051-751			L1, 2		INDUCTOR, Fixed, 22μH, ±10%	2						
19	057-808			R1, 3		RESISTOR, Metal Film, 412Ω, 1/2W, ±1%	2						
21	062-422			R5, 7		RESISTOR, Metal Film, 3160Ω, 1/8W, ±1%	2						
22	062-425			R6		RESISTOR, Metal Film, 49.9Ω, 1/8W, ±1%	1						
23	062-565			R8, 9		RESISTOR, Metal Film, 52.3Ω, 1/8W, ±1%	2						
25	064-001			C6		CAPACITOR, Ceramic, Disc, 5000pF, 25V, -20+100%	1						
27	166-219			J1-3		CONNECTOR, RF Receptacle, ST. PWB, 50Ω	3						
29	280-482					SPACER, Swage, .187 Dia. x .188 Lg, 2-56 Thd.	4						
31	580-280	MM1607	Q3, 4	TRANSISTOR	2								
32	580-292	Motorola SS4139-1; PCD662	Q5, 6	TRANSISTOR, Dual	2								
33	615-004			WIRE, Bare, 24 AWG	A/R								
35	232-115			CEMENT	A/R								
36	932-034		FB1-7	FERRITE BEAD	7								
37	932-035		FB8-11	FERRITE BEAD	4								

X1367080D

10-627/628

AMPEX



Switcher Printed Wiring Assembly  
Dwg. No. 1367080

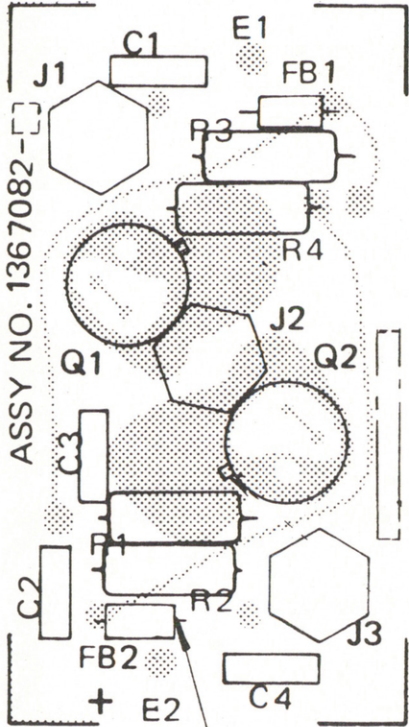
LIMITER PRINTED WIRING ASSEMBLY					CATALOG NO. 1367082		SHEET 1 OF 1						
							NHA 1364645						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
2	1367083			SCHEMATIC		REF							
6	580-292		Q1,2	TRANSISTOR, Dual		2							
8	030-966		C1-4	CAPACITOR, Ceramic, rectangular, .01μF, 100V, ±10%		4							
9	030-970		C6,8	CAPACITOR, Ceramic, tubular, .01μF, 100V, ±10%		2							
11	041-007		R1,4	RESISTOR, Fixed, 750 ohm, 1/2W, ±5%		2							
12	041-317		R2,3	RESISTOR, Fixed, 820 ohm, 1/2W, ±5%		2							
15	051-751		L2	INDUCTOR, Fixed, 22μH, ±10%		1							
16	051-752		L1	TOROID		1							
18	057-379		R5,9	RESISTOR, Metal Film, 549 ohm, 1/2W, ±1%		2							
20	062-425		R6,8	RESISTOR, Metal Film, 49.9 ohm, 1/8W, ±1%		2							
21	062-521		R7	RESISTOR, Metal Film, 54.9 ohm, 1/8W, ±1%		1							
22	064-001		C5,7	CAPACITOR, Ceramic, 5000 PF, 25V, -20+100%		2							
24	166-219		J1-3	CONNECTOR, RF Receptacle, ST. printed wiring board, 50 ohm		3							
25	173-633			TERMINAL, Stud, straight, press fit		1							
26	280-482			SPACER, Swage, .188 diameter x .188 long, 2-56 thread		4							
28	615-004			WIRE, Bare, 24 AWG		A/R							
29	618-038			WIRE, Magnet, polybond, 30 AWG		A/R							
31	232-115			CEMENT		A/R							
33	932-034		FB1,2	FERRITE BEAD		2							
34	932-035		FB4,5	FERRITE BEAD		2							
35	932-037		FB3,6	FERRITE BEAD		2							

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10-631/632



AMPEX



(28) 2 PLACES  
REF. FB1 & FB2

Limiter Printed Wiring Assembly  
Dwg. No. 1367082

16 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)					CATALOG NO. X1366776		SHEET 1 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
2	1366777	051-800		SCHEMATIC		REF							
6	1365026-05			DELAY LINE, Ultrasonic		1							
7	1366805-02			MODULE, Preamplifier		1							
8	1368705-01			INDUCTOR, Fixed, precision		3							
9	1366810-02			SHIELD, Delay Module, left		1							
10	1366811-01			SHIELD, Delay Module, right		1							
11	1366812-03			INDUCTOR, Pretuned		2							
12	1366814-11			CABLE ASSEMBLY, 50 Ohm		1							
13	1366814-40			CABLE ASSEMBLY, 50 Ohm		1							
16	1366817-01			CLIP, Ground, transistor		1							
21	103307-01			STANDOFF, .250 Long		6							
22	103307-02			STANDOFF, .125 Long		2							
24	013-166			DIODE, Zener, 3.3V		1							
27	014-613			HEATSINK, Transistor, MW cooler		3							
28	014-715			SPACER, Transistor		6							
29	014-783			SPACER, Transistor		1							
32	018-285			ADHESIVE, Thread Locking		A/R							
35	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		45							
36	030-968			CAPACITOR, Ceramic, .033μF, 100V, 10%		2							
39	034-156			CAPACITOR, Mica, 5PF, 500V, .5PF		1							
40	034-182			CAPACITOR, Mica, 56PF, 500V, 5%		1							
41	034-215			CAPACITOR, Mica, 10PF, 500V, 5%		2							
42	034-269			CAPACITOR, Mica, 22PF, 500V, 5%		1							
43	034-532			CAPACITOR, Mica, 1PF, 500V, .5PF		1							
44	034-788			CAPACITOR, Mica, 27PF, 500V, 2%		3							
45	034-945			CAPACITOR, Mica, 12PF, 500V, .5PF		2							
49	038-275			CAPACITOR, Variable, 5.5 - 18PF		1							
50	038-277			CAPACITOR, Variable, 9 - 35PF		1							
54	041-003			RESISTOR, Comp., 100 ohm, 1/2W, 5%		1							
55	041-009			RESISTOR, Comp., 1.8K ohm, 1/2W, 5%		1							
56	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2							
57	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		2							
58	041-331			RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		1							
59	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1							
60	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2							

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16 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)					CATALOG NO. X1366776		SHEET 2 OF 5								
							NHA 1366053								
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-01									
61	041-417			RESISTOR, Comp., 390 ohm, 1/4W, 5%		1									
62	041-425			RESISTOR, Comp., 47 ohm, 1/4W, 5%		1									
63	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2									
64	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		2									
65	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1									
66	041-442			RESISTOR, Comp., 2700 ohm, 1/4W, 5%		1									
67	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1									
68	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2									
69	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1									
70	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		1									
71	041-559			RESISTOR, Comp., 120 ohm, 1/4W, 5%		1									
72	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1									
73	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1									
74	041-697			RESISTOR, Comp., 100 ohm, 1/8W, 5%		1									
75	041-733			RESISTOR, Comp., 56 ohm, 1/4W, 5%		1									
76	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1									
77	041-995			RESISTOR, Comp., 430 ohm, 2W, 5%		1									
80	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		2									
82	048-131			RESISTOR, Metal Film, 1.21K ohm, 1/2W, 1%		3									
83	048-136			RESISTOR, Metal Film, 681 ohm, 1/2W, 1%		1									
84	048-154			RESISTOR, Metal Film, 1.1K ohm, 1/2W, 1%		1									
85	048-403			RESISTOR, Metal Film, 499 ohm, 1/2W, 1%		1									
86	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1									
87	048-669			RESISTOR, Metal Film, 845 ohm, 1/2W, 1%		1									
88	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1									
89	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2									
90	049-402			RESISTOR, Comp., 47 ohm, 1/8W, 5%		1									
91	049-597			RESISTOR, Comp., 160 ohm, 1W, 5%		1									
92	049-598			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1									
93	049-599			RESISTOR, Comp., 510 ohm, 2W, 5%		1									
94	049-600			RESISTOR, Comp., 22 ohm, 1/8W, 5%		6									

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16 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)				CATALOG NO. X1366776		SHEET 3 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
95	048-585			RESISTOR, Metal Film, 30.1 ohm, 1/8W, 1%		2					
97	051-717			INDUCTOR, Variable, 0.47 $\mu$ H		1					
98	051-724			INDUCTOR, Variable, 0.15 $\mu$ H		1					
99	051-725			INDUCTOR, Variable, 0.22 $\mu$ H		1					
100	051-727			INDUCTOR, Variable, 0.33 $\mu$ H		3					
102	051-751			INDUCTOR, Fixed, 22 $\mu$ H, 10%		1					
104	051-800			INDUCTOR, Variable, 0.05 - 0.10 $\mu$ H		1					
106	056-022			CAPACITOR, Mica, 6.8PF, 500V, .5PF		1					
107	056-388			CAPACITOR, Mica, 8.2PF, 500V, .5PF		1					
108	056-465			CAPACITOR, Mica, 13PF, 500V, .5PF		2					
111	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4					
112	057-196			RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		1					
113	057-513			RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		2					
115	058-516			RESISTOR, Variable, 50 ohm, 1/2W, 10%		3					
116	058-518			RESISTOR, Variable, 100 ohm, 1/2W, 5%		2					
117	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1					
118	058-538			RESISTOR, Variable, 200 ohm, 1/2W, 10%		1					
120	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		4					
121	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		4					
122	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1					
123	062-379			RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		2					
124	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1					
125	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2					
126	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1					
127	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2					
128	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1					
129	062-522			RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		1					
130	062-523			RESISTOR, Metal Film, 422 ohm, 1/8W, 1%		1					

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16 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)					CATALOG NO. X1366776		SHEET 4 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
131	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		1					
132	062-627			RESISTOR, Metal Film, 374 ohm, 1/8W, 1%		1					
133	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1					
135	066-066			RESISTOR, Metal Film, 1.18K ohm, 1/2W, 1%		1					
136	066-067			RESISTOR, Metal Film, 60.4 ohm, 1/8W, 1%		1					
137	087-063			GREASE, Silicone, DC-4		A/R					
140	139-045			CONNECTOR, Printed Wiring Board, right angle, 50 ohm		1					
141	139-238			CONNECTOR, Jack, for .025 diameter pin		3					
143	143-981			CONNECTOR, Jack, for .040 diameter pin		26					
145	166-219			CONNECTOR, Printed Wiring Board, straight, 50 ohm		8					
146	280-998			SPACER, Transistor		7					
147	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
148	471-559			SCREW, Binder Head, slot, 4-40 x .375		7					
150	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
151	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2					
153	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4					
154	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2					
155	496-004			NUT, Assembled Washer, 4-40		1					
156	501-008			WASHER, Flat, #4		4					
157	501-712			WASHER, Flat, brass, .032 thick		1					
158	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
159	501-740			WASHER, Flat, aluminum, 9-32 x .016		1					
160	501-715			WASHER, Shoulder, nylon		2					
161	540-052			INDUCTOR, Fixed, 6.8μH, 10%		2					
163	560-295			TRANSFORMER, BT8		1					
165	580-106	2N3866		TRANSISTOR		3					
166	580-124	2N5160		TRANSISTOR		1					
167	580-169	MD918		TRANSISTOR, Dual		1					
168	580-280	MM1607		TRANSISTOR		14					

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16 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)					CATALOG NO. X1366776		SHEET 5 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
169	580-292			TRANSISTOR		1							
170	580-348			HEATSINK, Transistor		1							
171	602-012			CONNECTOR, Plug, shorting, red		9							
173	600-161			SLEEVING, Extruded, #22		A/R							
175	615-002			WIRE, Bare, solid, 22AWG		A/R							
177	932-034			FERRITE BEAD, .236 Long		12							
178	932-035			FERRITE BEAD, .118 Long		10							
179	932-037			FERRITE BEAD, .050 Long		2							

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UPDATED FEB. 1971

10-633C/334C



16 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)				CATALOG NO.	X1369442	SHEET 1 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
2	1369443			SCHEMATIC		REF					
17	1365026-05			DELAY LINE, Ultrasonic		1					
18	1366805-02			MODULE, Preamplifier, 60 MHz		1					
19	1366810-03			SHIELD, Delay Module, left		1					
20	1366812-03			INDUCTOR, Fixed, precision		2					
21	1366814-09			CABLE ASSEMBLY, 50 Ohm		1					
22	1366814-46			CABLE ASSEMBLY, 50 Ohm		1					
23	1366817-01			SPRING, Ground Clip		2					
24	1366881-04			CABLE ASSEMBLY, 50 Ohm		1					
25	1368188-83			LABEL, Module		1					
26	1368260-01			OVERLAY, Blank		1					
27	1369425-01			PRINTED WIRING ASSEMBLY, Double Tuned Equalizer		A/R					
28	1369427-01			PRINTED WIRING ASSEMBLY, Single Tuned Equalizer		A/R					
29	1369429-01			PRINTED WIRING ASSEMBLY, Peaking Equalizer		A/R					
30	1369431-01			PRINTED WIRING ASSEMBLY, Slope Equalizer		A/R					
31	1369448-01			SHIELD, Delay Module, right		1					
32	1369449-01			COVER, Module, bottom		1					
33	1369449-02			COVER, Module, top		1					
36	013-166			DIODE, Zener, 3.3V		1					
40	014-613			HEATSINK, Transistor, MW cooler		3					
41	014-715			MOUNTING PAD, Transistor		2					
42	014-783			MOUNTING PAD, Transistor		1					
54	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		31					
55	030-968			CAPACITOR, Ceramic, .033μF, 100V, 10%		2					
56	030-970			CAPACITOR, Ceramic, .01μF, 100V, 10%		7					
63	034-185			CAPACITOR, Mica, 75PF, 500V, ±5%		1					
64	034-215			CAPACITOR, Mica, 10PF, 500V, ±5%		1					
65	034-345			CAPACITOR, Mica, 3PF, 500V, ±.5PF		1					
66	034-532			CAPACITOR, Mica, 1PF, 500V, ±.5PF		1					
67	034-788			CAPACITOR, Mica, 27PF, 500V, ±2%		1					
68	034-759			CAPACITOR, Mica, 15PF, 500V, ±.5PF		1					
73	038-275			CAPACITOR, Variable, 5.5 - 18PF		1					
74	038-291			CAPACITOR, Variable, .5 - 3.5PF		1					
75	038-292			CAPACITOR, Variable, 1 - 10PF		1					

X1369442-

16 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)					CATALOG NO. X1369442		SHEET 2 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
83	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2					
84	041-317			RESISTOR, Comp., 820 ohm, 1/2W, 5%		1					
85	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		1					
86	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1					
87	041-355			RESISTOR, Comp., 1.2K ohm, 1W, 5%		1					
88	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2					
89	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2					
90	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		1					
91	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1					
92	041-478			RESISTOR, Comp., 1.1K ohm, 1/2W, 5%		1					
93	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1					
94	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2					
95	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1					
96	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		2					
97	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1					
98	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1					
99	041-734			RESISTOR, Comp., 62 ohm, 1/4W, 5%		1					
100	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1					
101	041-983			RESISTOR, Comp., 300 ohm, 1W, 5%		1					
102	041-986			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1					
107	042-759			RESISTOR, Metal Film, 43.2 ohm, 1/8W, 1%		1					
108	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		3					
109	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1					
111	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1					
112	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2					
119	049-602			RESISTOR, Comp., 150 ohm, 1/8W, 5%		1					
124	051-718			INDUCTOR, Variable, 0.68 $\mu$ H		2					
125	051-727			INDUCTOR, Variable, 0.33 $\mu$ H		3					
126	051-751			INDUCTOR, Fixed, 22 $\mu$ H, 10%		1					
127	051-798			INDUCTOR, Variable, 1.0 $\mu$ H		1					
128	051-800			INDUCTOR, Variable, .05 - .10 $\mu$ H		1					
134	056-022			CAPACITOR, Mica, 6.8PF, 500V, $\pm$ .5PF		1					
135	056-388			CAPACITOR, Mica, 8.2PF, 500V, $\pm$ .5PF		2					

X1369442-

16 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)				CATALOG NO. X1369442		SHEET 3 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
136	056-465			CAPACITOR, Mica, 136PF, 500V, $\pm$ .5PF		2					
142	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		2					
143	057-224			RESISTOR, Metal Film, 301 ohm, 1/8W, 1%		1					
149	058-517			RESISTOR, Variable, 10 ohm, 1/2W, 10%		1					
150	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1					
156	059-413			RESISTOR, Wirewound, 390 ohm, 3W, 3%		1					
157	059-414			RESISTOR, Wirewound, 432 ohm, 3W, 3%		1					
162	062-256			RESISTOR, Metal Film, 1.27K ohm, 1/4W, 1%		2					
163	062-044			RESISTOR, Metal Film, 402 ohm, 1/8W, 1%		1					
164	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		1					
165	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		1					
166	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1					
167	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1					
168	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2					
169	062-453			RESISTOR, Metal Film, 475 ohm, 1/8W, 1%		1					
170	062-472			RESISTOR, Metal Film, 51.1 ohm, 1/8W, 1%		1					
171	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1					
172	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2					
173	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1					
174	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		2					
175	062-648			RESISTOR, Metal Film, 45.3 ohm, 1/8W, 1%		1					
176	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1					
177	062-734			RESISTOR, Metal Film, 95.3 ohm, 1/8W, 1%		1					
178	062-768			RESISTOR, Metal Film, 255 ohm, 1/8W, 1%		1					
179	066-110			RESISTOR, Metal Film, 340 ohm, 1/8W, 1%		1					
180	066-164			RESISTOR, Metal Film, 210 ohm, 1/4W, 1%		1					

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16 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)				CATALOG NO. X1369442		SHEET 4 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
181	066-047			RESISTOR, Metal Film, 32.4 ohm, 1/8W, 1%		1					
186	087-063			GREASE, General Purpose, #4, silicone		A/R					
192	139-045			CONNECTOR, RF Receptacle, right angle, 50 ohm		1					
193	139-238			CONNECTOR, Jack, tip		3					
194	143-981			CONNECTOR, Jack, tip		24					
200	166-219			CONNECTOR, RF Receptacle, straight, 50 ohm		8					
206	280-576			SPACER, Swage, 2-56 x 3/32		6					
207	280-998			MOUNTING PAD, Transistor		6					
213	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
214	471-559			SCREW, Binder Head, slot, 4-40 x .375		7					
215	472-113			SCREW, Cross-Recessed, pan head, 2-56 x .250		A/R					
216	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4					
217	473-325			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .312		2					
218	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4					
219	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2					
225	496-004			NUT, Assembled Washer, 4-40		1					
231	501-008			WASHER, Plain, #4		4					
232	501-712			WASHER, Plain, brass, 1/4 x .032 thick		1					
233	501-715			WASHER, Shoulder, nylon, 1/4 x .062 thick		2					
234	501-740			WASHER, Flat, aluminum, 1/4 x .016		1					
235	502-094			WASHER, Lock, helical spring, #2		A/R					
241	540-052			INDUCTOR, Fixed, 6.8 $\mu$ H, 10%		2					
244	560-295			TRANSFORMER, Balanced, 50/200 ohm ct		1					
247	580-106	2N3866		TRANSISTOR		3					
248	580-124	2N5160		TRANSISTOR		1					
249	580-169	MD918		TRANSISTOR, Dual		1					
250	580-280	MM1607		TRANSISTOR		9					
251	580-292			TRANSISTOR		1					
252	580-348			HEATSINK, Transistor		1					
255	600-161			SLEEVING, Teflon, #22		A/R					

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16 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 231)					CATALOG NO. X1369442		SHEET 5 OF 5		NHA 1366053		
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
256	602-012			CONNECTOR, Plug, shorting, red		4					
257	615-002			WIRE, Uninsulated, solid, 22 AWG		A/R					
259	932-034			FERRITE BEAD, .236 Long		11					
260	932-035			FERRITE BEAD, .118 Long		10					
261	932-037			FERRITE BEAD, .055 Long		2					

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8 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)				CATALOG NO. X1369440		SHEET 1 OF 5						
						NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
2	1369441			SCHEMATIC		REF						
17	1365026-04			DELAY LINE, Ultrasonic		1						
18	1366805-02			MODULE, Preamplifier, 60 MHz		1						
19	1366810-03			SHIELD, Delay Module, left		1						
20	1366812-03			INDUCTOR, Fixed, precision		2						
21	1366814-09			CABLE ASSEMBLY, 50 Ohm		1						
22	1366814-46			CABLE ASSEMBLY, 50 Ohm		1						
23	1366817-01			SPRING, Ground Clip		2						
24	1366881-04			CABLE ASSEMBLY, 50 Ohm		1						
26	1368260-01			OVERLAY, Blank		1						
27	1369425-01			PRINTED WIRING ASSEMBLY, Double Tuned Equalizer		A/R						
28	1369427-01			PRINTED WIRING ASSEMBLY, Single Tuned Equalizer		A/R						
29	1369429-01			PRINTED WIRING ASSEMBLY, Peaking Equalizer		A/R						
30	1369431-01			PRINTED WIRING ASSEMBLY, Slope Equalizer		A/R						
31	1369448-01			SHIELD, Delay Module, right		1						
32	1369449-01			COVER, Module, bottom		1						
33	1369449-02			COVER, Module, top		1						
36	013-166			DIODE, Zener, 3.3V		1						
40	014-613			HEATSINK, Transistor, MW cooler		3						
41	014-715			MOUNTING PAD, Transistor		2						
42	014-783			MOUNTING PAD, Transistor		1						
54	030-966			CAPACITOR, Ceramic, .01 $\mu$ F, 100V, 10%		31						
55	030-968			CAPACITOR, Ceramic, .033 $\mu$ F, 100V, 10%		2						
56	030-970			CAPACITOR, Ceramic, .01 $\mu$ F, 100V, 10%		7						
63	034-185			CAPACITOR, Mica, 75PF, 500V, $\pm$ 5%		1						
64	034-215			CAPACITOR, Mica, 10PF, 500V, $\pm$ 5%		1						
65	034-345			CAPACITOR, Mica, 3PF, 500V, $\pm$ .5PF		1						
66	034-532			CAPACITOR, Mica, 1PF, 500V, $\pm$ .5PF		1						
67	034-788			CAPACITOR, Mica, 27PF, 500V, $\pm$ 2%		1						
68	034-759			CAPACITOR, Mica, 15PF, 500V, $\pm$ .5PF		1						
73	038-275			CAPACITOR, Variable, 5.5 - 18PF		1						
74	038-291			CAPACITOR, Variable, .5 - 3.5PF		1						
75	038-292			CAPACITOR, Variable, 1 - 10PF		1						

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8 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)					CATALOG NO. X1369440		SHEET 2 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
83	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2						
84	041-317			RESISTOR, Comp., 820 ohm, 1/2W, 5%		1						
85	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		1						
86	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1						
87	041-355			RESISTOR, Comp., 1.2K ohm, 1W, 5%		1						
88	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2						
89	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2						
90	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		1						
91	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1						
92	041-478			RESISTOR, Comp., 1.1K ohm, 1/2W, 5%		1						
93	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1						
94	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2						
95	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1						
96	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		2						
97	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1						
98	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1						
99	041-734			RESISTOR, Comp., 62 ohm, 1/4W, 5%		1						
100	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1						
101	041-983			RESISTOR, Comp., 300 ohm, 1W, 5%		1						
102	041-986			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1						
107	042-759			RESISTOR, Metal Film, 43.2 ohm, 1/8W, 1%		1						
108	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		3						
109	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1						
111	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1						
112	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2						
119	049-602			RESISTOR, Comp., 150 ohm, 1/8W, 5%		1						
124	051-718			INDUCTOR, Variable, 0.68 $\mu$ H		2						
125	051-727			INDUCTOR, Variable, 0.33 $\mu$ H		3						
126	051-751			INDUCTOR, Fixed, 22 $\mu$ H, 10%		1						
127	051-798			INDUCTOR, Variable, 1.0 $\mu$ H		1						
128	051-800			INDUCTOR, Variable, .05 - .10 $\mu$ H		1						
134	056-022			CAPACITOR, Mica, 6.8PF, 500V, $\pm$ .5PF		1						
135	056-388			CAPACITOR, Mica, 8.2PF, 500V, $\pm$ .5PF		2						

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8 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)					CATALOG NO. X1369440		SHEET 3 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
136	056-465			CAPACITOR, Mica, 13PF, 500V, ±.5PF		2					
142	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		2					
143	057-224			RESISTOR, Metal Film, 301 ohm, 1/8W, 1%		1					
149	058-517			RESISTOR, Variable, 10 ohm, 1/2W, 10%		1					
150	058-519			RESISTOR, Variable, 50 ohm, 1/2 W, 5%		1					
156	059-413			RESISTOR, Wirewound, 390 ohm, 3W, 3%		1					
157	059-414			RESISTOR, Wirewound, 432 ohm, 3W, 3%		1					
162	062-256			RESISTOR, Metal Film, 1.27K ohm, 1/4W, 1%		2					
163	062-044			RESISTOR, Metal Film, 402 ohm, 1/8W, 1%		1					
164	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		1					
165	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		1					
166	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1					
167	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1					
168	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2					
169	062-453			RESISTOR, Metal Film, 475 ohm, 1/8W, 1%		1					
170	062-472			RESISTOR, Metal Film, 51.1 ohm, 1/8W, 1%		1					
171	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1					
172	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2					
173	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1					
174	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		2					
175	062-648			RESISTOR, Metal Film, 45.3 ohm, 1/8W, 1%		1					
176	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1					
177	062-734			RESISTOR, Metal Film, 95.3 ohm, 1/8W, 1%		1					
178	062-768			RESISTOR, Metal Film, 255 ohm, 1/8W, 1%		1					
179	066-110			RESISTOR, Metal Film, 340 ohm, 1/8W, 1%		1					
180	066-164			RESISTOR, Metal Film, 210 ohm, 1/4W, 1%		1					

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8 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)				CATALOG NO. X1369440		SHEET 4 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
181	066-047			RESISTOR, Metal Film, 32.4 ohm, 1/8W, 1%		1					
186	087-063			GREASE, General Purpose, #4, silicone		A/R					
192	139-045			CONNECTOR, RF Receptacle, right angle, 50 ohm		1					
193	139-238			CONNECTOR, Jack, tip		3					
194	143-981			CONNECTOR, Jack, tip		24					
200	166-219			CONNECTOR, RF Receptacle, straight, 50 ohm		8					
206	280-576			SPACER, Swage, 2-56 x 3/32		6					
207	280-998			MOUNTING PAD, Transistor		6					
213	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
214	471-559			SCREW, Binder Head, slot, 4-40 x .375		7					
215	472-113			SCREW, Cross-Recessed, pan head, 2-56 x .250		A/R					
216	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
217	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2					
218	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4					
219	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2					
225	496-004			NUT, Assembled Washer, 4-40		1					
231	501-008			WASHER, Plain, #4		4					
232	501-712			WASHER, Plain, brass, 1/4 x .032 thick		1					
233	501-715			WASHER, Shoulder, nylon, 1/4 x .062 thick		2					
234	501-740			WASHER, Flat, aluminum, 1/4 x .016		1					
235	502-094			WASHER, Lock, helical spring, #2		A/R					
241	540-052			INDUCTOR, Fixed, 6.8 $\mu$ H, 10%		2					
244	560-295			TRANSFORMER, Balanced, 50/200 ohm ct		1					
247	580-106	2N3866		TRANSISTOR		3					
248	580-124	2N5160		TRANSISTOR		1					
249	580-169	MD918		TRANSISTOR, Dual		1					
250	580-280	MM1607		TRANSISTOR		9					
251	580-292			TRANSISTOR		1					
252	580-348			HEATSINK, Transistor		1					
255	600-161			SLEEVING, Teflon, #22		A/R					

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8 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)					CATALOG NO. X1369440		SHEET 5 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
256	602-012			CONNECTOR, Plug, shorting, red		4						
257	615-002			WIRE, Uninsulated, solid, 22 AWG		A/R						
259	932-034			FERRITE BEAD, .236 Long		11						
260	932-035			FERRITE BEAD, .118 Long		10						
261	932-037			FERRITE BEAD, .055 Long		2						

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8 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)					CATALOG NO. X1366774		SHEET 1 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
2	1366775	051-800		SCHEMATIC		REF						
6	1365026-04			DELAY LINE, Ultrasonic		1						
7	1366805-02			MODULE, Preamplifier		1						
8	1368705-01			INDUCTOR, Fixed, precision		3						
9	1366810-02			SHIELD, Delay Module, left		1						
10	1366811-01			SHIELD, Delay Module, right		1						
11	1366812-03			INDUCTOR, Pretuned		2						
12	1366814-11			CABLE ASSEMBLY, 50 Ohm		1						
13	1366814-40			CABLE ASSEMBLY, 50 Ohm,		1						
14	1366816-01			COVER, Module		1						
15	1366816-03			COVER, Module		1						
16	1366817-01			CLIP, Ground, transistor		1						
18	1368188-78			LABEL, Module		1						
19	1368260-01			OVERLAY, Module		1						
20	103307-01			STANDOFF, .250 Long		6						
21	103307-02			STANDOFF, .125 Long		2						
23	013-166			DIODE, Zener, 3.3V		1						
24	014-613			HEATSINK, Transistor, MW cooler		3						
25	014-715			SPACER, Transistor		6						
26	014-763			SPACER, Transistor		1						
28	018-285			ADHESIVE, Thread Locking		A/R						
30	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		45						
32	030-968			CAPACITOR, Ceramic, .033μF, 100V,10%		2						
34	034-156			CAPACITOR, Mica, 5PF, 500V, 0.5PF		1						
35	034-182			CAPACITOR, Mica, 56PF, 500V, 5%		1						
36	034-215			CAPACITOR, Mica, 10PF, 500V, 5%		2						
37	034-269			CAPACITOR, Mica, 22PF, 500V, 5%		1						
38	034-532			CAPACITOR, Mica, 1PF, 500V, .5PF		1						
39	034-788			CAPACITOR, Mica, 27PF, 500V, 2%		3						
40	034-945			CAPACITOR, Mica, 12PF, 500V, .5PF		2						
43	038-275			CAPACITOR, Variable, 5.5 - 18PF		1						
44	038-277			CAPACITOR, Variable, 9 - 35PF		1						
46	041-003			RESISTOR, Comp., 100 ohm, 1/2W, 5%		1						
47	041-009			RESISTOR, Comp., 1.8K ohm, 1/2W, 5%		1						
48	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2						
49	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		2						

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8 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)					CATALOG NO. X1366774		SHEET 2 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
50	041-331			RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		1						
51	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1						
53	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2						
54	041-417			RESISTOR, Comp., 390 ohm, 1/4W, 5%		1						
55	041-425			RESISTOR, Comp., 47 ohm, 1/4W, 5%		1						
56	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2						
57	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		2						
58	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1						
59	041-442			RESISTOR, Comp., 2700 ohm, 1/4W, 5%		1						
60	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1						
61	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2						
63	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1						
64	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		1						
65	041-559			RESISTOR, Comp., 120 ohm, 1/4W, 5%		1						
66	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1						
67	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1						
68	041-697			RESISTOR, Comp., 100 ohm, 1/8W, 5%		1						
69	041-733			RESISTOR, Comp., 56 ohm, 1/4W, 5%		1						
70	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1						
71	041-995			RESISTOR, Comp., 430 ohm, 2W, 5%		1						
73	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		2						
75	048-131			RESISTOR, Metal Film, 1.21K ohm, 1/2W, 1%		3						
76	048-136			RESISTOR, Metal Film, 681 ohm, 1/2W, 1%		1						
77	048-154			RESISTOR, Metal Film, 1.1K ohm, 1/2W, 1%		1						
78	048-403			RESISTOR, Metal Film, 499 ohm, 1/2W, 1%		1						
79	048-585			RESISTOR, Metal Film, 30.1 ohm, 1/8W, 1%		2						
80	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1						
81	048-669			RESISTOR, Metal Film, 845 ohm, 1/2W, 1%		1						
82	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1						
83	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2						

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8 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)					CATALOG NO. X1366774		SHEET 3 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
86	049-402			RESISTOR, Comp., 47 ohm, 1/8W, 5%		1						
87	049-597			RESISTOR, Comp., 160 ohm, 1W, 5%		1						
88	049-598			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1						
89	049-599			RESISTOR, Comp., 510 ohm, 2W, 5%		1						
90	049-600			RESISTOR, Comp., 22 ohm, 1/8W, 5%		6						
92	051-717			INDUCTOR, Variable, 0.47μH		1						
93	051-724			INDUCTOR, Variable, 0.15μH		1						
94	051-725			INDUCTOR, Variable, 0.22μH		1						
95	051-727			INDUCTOR, Variable, 0.33μH		3						
96	051-751			INDUCTOR, Fixed, 22μH, 10%		1						
97	051-800			INDUCTOR, Variable, 0.05 - 0.10μH		1						
99	056-022			CAPACITOR, Mica, 6.8PF, 500V, .5PF		1						
100	056-388			CAPACITOR, Mica, 8.2PF, 500V, .5PF		1						
101	056-465			CAPACITOR, Mica, 13PF, 500V, .5PF		2						
103	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4						
104	057-196			RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		1						
105	057-513			RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		2						
107	058-516			RESISTOR, Variable, 50 ohm, 1/2W, 10%		3						
108	058-518			RESISTOR, Variable, 100 ohm, 1/2W, 5%		2						
109	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1						
110	058-538			RESISTOR, Variable, 200 ohm, 1/2W, 10%		1						
113	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		4						
114	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		4						
115	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1						
116	062-379			RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		2						
117	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1						
118	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2						
119	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1						
120	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2						
121	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1						

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8 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 232)				CATALOG NO. X1366774		SHEET 4 OF 5						
						NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
122	062-522			RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		1						
123	062-523			RESISTOR, Metal Film, 422 ohm, 1/8W, 1%		1						
124	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		1						
125	062-627			RESISTOR, Metal Film, 374 ohm, 1/8W, 1%		1						
126	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1						
128	066-066			RESISTOR, Metal Film, 1.18K ohm, 1/2W, 1%		1						
129	066-067			RESISTOR, Metal Film, 60.4 ohm, 1/8W, 1%		1						
131	087-063			GREASE, Silicone, DC-4		A/R						
133	139-045			CONNECTOR, Printed Wiring Board, right angle, 50 ohm		1						
134	139-238			CONNECTOR, Jack, for .025 diameter pin		3						
135	143-981			CONNECTOR, Jack, for .040 diameter pin		26						
137	166-219			CONNECTOR, Printed Wiring Board, straight, 50 ohm		8						
138	280-998			SPACER, Transistor		7						
140	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8						
141	471-559			SCREW, Binder Head, slot, 4-40 x .375		7						
142	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4						
143	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2						
144	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4						
145	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2						
146	496-004			NUT, Assembled Washer, 4-40		1						
147	501-008			WASHER, Flat, #4		4						
148	501-712			WASHER, Flat, brass, .032 thick		1						
149	501-715			WASHER, Shoulder, nylon		2						
150	501-740			WASHER, Flat, aluminum, 9-32 x .016		1						
153	540-052			INDUCTOR, Fixed, 6.8 $\mu$ H, 10%		2						
154	560-295			TRANSFORMER, BT8		1						
156	580-106	2N3866		TRANSISTOR		3						
157	580-124	2N5160		TRANSISTOR		1						
158	580-169	MD918		TRANSISTOR, Dual		1						

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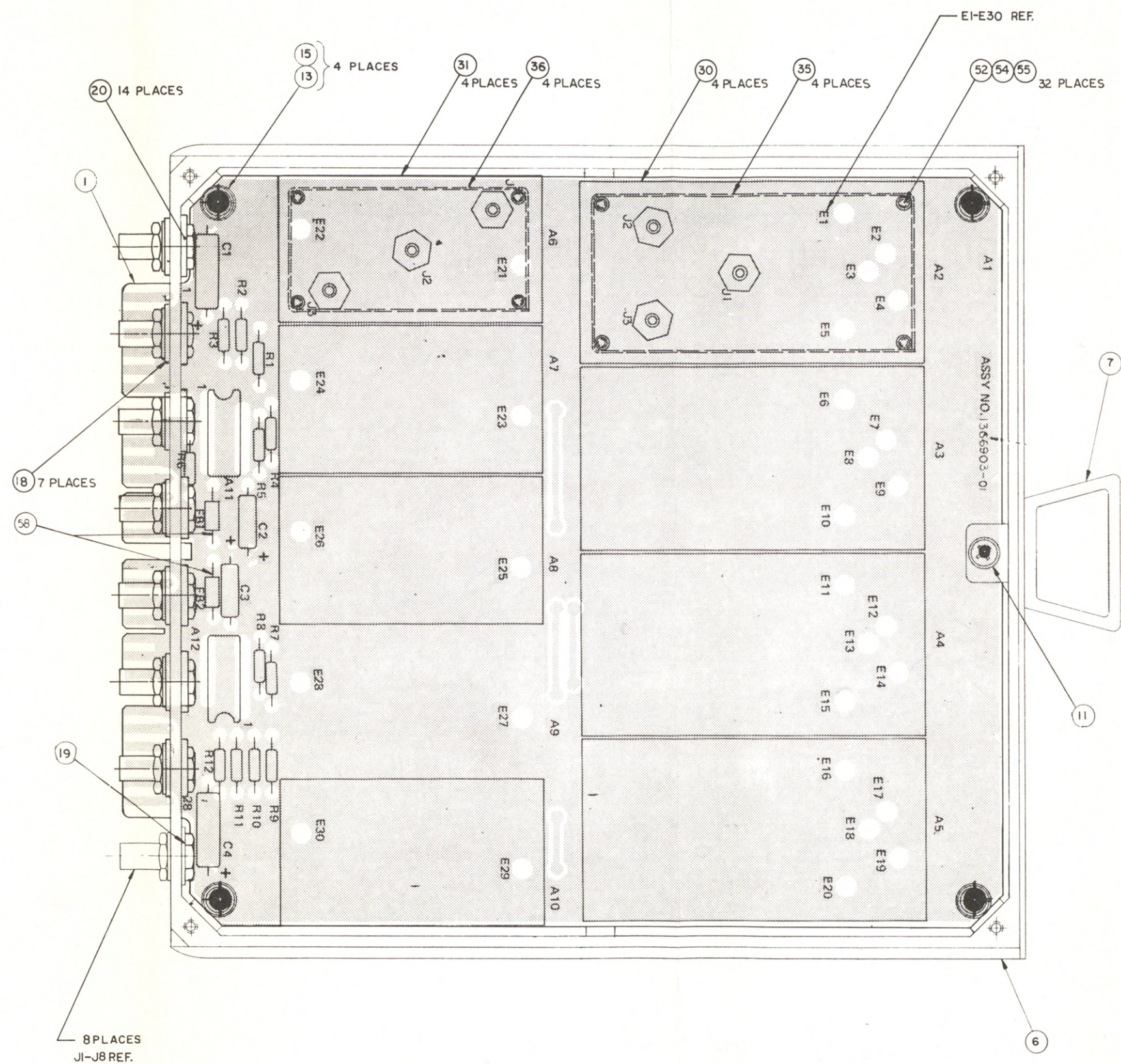
SWITCHER/LIMITER 2 PRINTED WIRING ASSEMBLY (MODULE 233)						CATALOG NO. 1366903		SHEET 1 OF 1			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1366904			SCHEMATIC		REF					
4	1368188-79			LABEL, Module		1					
5	1368260-01			OVERLAY, Module		1					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
10	018-285			ADHESIVE, Thread Locking		A/R					
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
18	501-740			WASHER, Flat		7					
19	501-712			WASHER, Flat, brass, .032 thick		1					
20	501-715			WASHER, Shoulder, nylon		14					
23	1366814-02			CABLE ASSEMBLY, 50 ohm		2					
24	1366814-06			CABLE ASSEMBLY, 50 ohm		1					
25	1366814-08			CABLE ASSEMBLY, 50 ohm		2					
26	1366814-23			CABLE ASSEMBLY, 50 ohm		1					
27	1366814-30			CABLE ASSEMBLY, 50 ohm		1					
28	1366814-32			CABLE ASSEMBLY, 50 ohm		1					
30	1367080-01		A2-5	PRINTED WIRING ASSEMBLY, Switcher		4					
31	1367082-01		A6-8,10	PRINTED WIRING ASSEMBLY, Limiter		4					
35	1367094-01			SHIELD, Switcher		4					
36	1367095-01			SHIELD, Limiter		4					
37	1367096-04			CABLE ASSEMBLY, 50 ohm		1					
38	1367096-05			CABLE ASSEMBLY, 50 ohm		1					
39	1367096-15			CABLE ASSEMBLY, 50 ohm		1					
40	1367096-16			CABLE ASSEMBLY, 50 ohm		1					
41	1367096-21			CABLE ASSEMBLY, 50 ohm		2					
42	1367096-25			CABLE ASSEMBLY, 50 ohm		1					
43	1367096-08			CABLE ASSEMBLY, 50 ohm		1					
45	037-472		C2,3	CAPACITOR, Tantalum, 4.7μF, 10V, ±10%		2					
46	037-991		C1,4	CAPACITOR, Tantalum, 22μF, 15V, ±10%		2					
49	041-419		R1,6,9,10	RESISTOR, Fixed, 100 ohm, 1/4W, ±5%		4					
50	041-425		R2-5,7,8,11,12	RESISTOR, Fixed, 47 ohm, 1/4W, ±5%		8					
52	472-113			SCREW, Cross-Recessed, pan head, 2-56 x .250		32					
54	501-233			WASHER, Flat, #2		32					
55	502-023			WASHER, Internal Tooth, #2		32					
57	586-488	MC1235L	A11,12	INTEGRATED CIRCUIT		2					
58	615-004			WIRE, Bare, 24 AWG		A/R					
60	932-034		FB1,2	FERRITE BEAD		2					
62	1368238-01			INSULATOR, Cover		1					

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AMPEX



Switcher/Limiter 2 Printed Wiring Assembly (Module 233)  
Dwg. No. 1366903



4 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)				CATALOG NO. X1366772		SHEET 1 OF 5							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
2	1366773	051-800		SCHEMATIC		REF							
6	1365026-03			DELAY LINE, Ultrasonic		1							
7	1366805-02			MODULE, Preamplifier		1							
8	1368705-01			INDUCTOR, Fixed, precision		3							
9	1366810-02			SHIELD, Delay Module, left		1							
10	1366811-01			SHIELD, Delay Module, right		1							
11	1366812-03			INDUCTOR, Pretuned		2							
12	1366814-11			CABLE ASSEMBLY, 50 ohm		1							
13	1366814-40			CABLE ASSEMBLY, 50 ohm		1							
14	1366816-01			COVER, Module		1							
15	1366816-03			COVER, Module		1							
16	1366817-01			CLIP, Ground, transistor		1							
19	1368260-01			OVERLAY, Module		1							
20	103307-01			STANDOFF, .25 Long		6							
21	103307-02			STANDOFF, .125 Long		2							
23	013-166			DIODE, Zener, 3.3V		1							
26	014-613			HEATSINK, Transistor, MW cooler		3							
27	014-715			SPACER, Transistor		6							
28	014-783			SPACER, Transistor		1							
31	018-285			ADHESIVE, Thread Locking		A/R							
33	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		45							
34	030-968			CAPACITOR, Ceramic, .033μF, 100V,10%		2							
38	034-156			CAPACITOR, Mica, 5PF, 500V, .5PF		1							
39	034-182			CAPACITOR, Mica, 56PF, 500V, 5%		1							
40	034-215			CAPACITOR, Mica, 10PF, 500V, 5%		2							
41	034-269			CAPACITOR, Mica, 22PF, 500V, 5%		1							
42	034-532			CAPACITOR, Mica, 1PF, 500V, .5PF		1							
43	034-788			CAPACITOR, Mica, 27PF, 500V, 2%		3							
44	034-945			CAPACITOR, Mica, 12PF, 500V, .5PF		2							
47	038-275			CAPACITOR, Variable, 5.5 - 18PF		1							
48	038-277			CAPACITOR, Variable, 9 - 35PF		1							
51	041-003			RESISTOR, Comp., 100 ohm, 1/2W, 5%		1							
52	041-009			RESISTOR, Comp., 1.8K ohm, 1/2W, 5%		1							
53	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2							
54	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		2							
55	041-331			RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		1							

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4 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)				CATALOG NO. X1366772		SHEET 2 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
56	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1					
57	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2					
58	041-417			RESISTOR, Comp., 390 ohm, 1/4W, 5%		1					
59	041-425			RESISTOR, Comp., 47 ohm, 1/4W, 5%		1					
60	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2					
61	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		2					
62	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1					
63	041-442			RESISTOR, Comp., 2700 ohm, 1/4W, 5%		1					
64	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1					
65	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2					
66	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1					
67	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		1					
68	041-559			RESISTOR, Comp., 120 ohm, 1/4W, 5%		1					
69	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1					
70	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1					
71	041-697			RESISTOR, Comp., 100 ohm, 1/8W, 5%		1					
72	041-733			RESISTOR, Comp., 56 ohm, 1/4W, 5%		1					
73	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1					
74	041-995			RESISTOR, Comp., 430 ohm, 2W, 5%		1					
78	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		2					
81	048-043			RESISTOR, Metal Film, 499 ohm, 1/2W, 1%		1					
82	048-131			RESISTOR, Metal Film, 1.21K ohm, 1/2W, 1%		3					
83	048-136			RESISTOR, Metal Film, 681 ohm, 1/2W, 1%		1					
84	048-154			RESISTOR, Metal Film, 1.1K ohm, 1/2W, 1%		1					
85	048-585			RESISTOR, Metal Film, 30.1 ohm, 1/8W, 1%		2					
86	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1					
87	048-669			RESISTOR, Metal Film, 845 ohm, 1/2W, 1%		1					
88	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1					
89	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2					
93	049-402			RESISTOR, Comp., 47 ohm, 1/8W, 5%		1					
94	049-597			RESISTOR, Comp., 160 ohm, 1W, 5%		1					

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4 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)					CATALOG NO. X1366772		SHEET 3 OF 5							
							NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
95	049-598			RESISTOR, Comp. , 1.3K ohm, 1W, 5%		1								
96	049-599			RESISTOR, Comp. , 510 ohm, 2W, 5%		1								
97	049-600			RESISTOR, Comp. , 22 ohm, 1/8W, 5%		6								
100	051-717			INDUCTOR, Variable, 0.47μH		1								
101	051-724			INDUCTOR, Variable, 0.15μH		1								
102	051-725			INDUCTOR, Variable, 0.22μH		1								
103	051-727			INDUCTOR, Variable, 0.33μH		3								
104	051-751			INDUCTOR, Fixed, 22μH, 10%		1								
105	051-799			INDUCTOR, Variable, 0.075 - 0.150μH		1								
109	056-022			CAPACITOR, Mica, 6.8PF, 500V, .5PF		1								
110	056-388			CAPACITOR, Mica, 8.2PF, 500V, .5PF		1								
111	056-465			CAPACITOR, Mica, 13PF, 500V, .5PF		2								
115	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4								
116	057-196			RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		1								
117	057-513			RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		2								
120	058-516			RESISTOR, Variable, 50 ohm, 1/2W, 10%		3								
121	058-518			RESISTOR, Variable, 100 ohm, 1/2W, 5%		2								
122	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1								
123	058-538			RESISTOR, Variable, 200 ohm, 1/2W, 10%		1								
126	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		4								
127	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		4								
128	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1								
129	062-379			RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		2								
130	062-424			RESISTOR, Metal Film, 47.4 ohm, 1/8W, 1%		1								
131	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2								
132	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1								
133	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2								
134	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1								
135	062-522			RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		1								

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4 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)					CATALOG NO. X1366772		SHEET 4 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
136	062-523			RESISTOR, Metal Film, 422 ohm, 1/8W, 1%		1							
137	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		1							
138	062-627			RESISTOR, Metal Film, 374 ohm, 1/8W, 1%		1							
139	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1							
143	066-066			RESISTOR, Metal Film, 1.18K ohm, 1/2W, 1%		1							
144	066-067			RESISTOR, Metal Film, 60.4 ohm, 1/8W, 1%		1							
145	087-063			GREASE, Silicone, DC-4		A/R							
147	139-045			CONNECTOR, Printed Wiring Board, right angle, 50 ohm		1							
148	139-238			CONNECTOR, Jack, for .025 diameter pin		3							
150	143-981			CONNECTOR, Jack, for .040 diameter pin		26							
152	166-219			CONNECTOR, Printed Wiring Board, straight, 50 ohm		8							
154	280-998			SPACER, Transistor		7							
157	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
158	471-559			SCREW, Binder Head, slot, 4-40 x .375		7							
161	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4							
162	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2							
165	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4							
166	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2							
167	496-004			NUT, Assembled Washer, 4-40		1							
169	501-008			WASHER, Flat, #4		4							
170	501-712			WASHER, Flat, brass, .032 thick		1							
171	501-715			WASHER, Shoulder, nylon		2							
172	501-740			WASHER, Flat, aluminum, 9-32 x .016		1							
175	540-052			INDUCTOR, Fixed, 6.8μH, 10%		2							
177	560-295			TRANSFORMER, BT8		1							
179	580-106	2N3866		TRANSISTOR		3							
180	580-124	2N5160		TRANSISTOR		1							
181	580-169	MD918		TRANSISTOR, Dual		1							
182	580-280	MM1607		TRANSISTOR		14							

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4 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)				CATALOG NO. X1366772		SHEET 5 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
183	580-292			TRANSISTOR		1					
184	580-348			HEATSINK, Transistor		1					
187	600-161			SLEEVING, Extruded, #22		A/R					
189	602-012			CONNECTOR, Plug, shorting, red		9					
191	615-002			WIRE, Bare, solid, 22 AWG		A/R					
193	932-034			FERRITE BEAD, .236 Long		12					
194	932-035			FERRITE BEAD, .118 Long		10					
195	932-037			FERRITE BEAD, .050 Long		2					

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4 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)					CATALOG NO. X1369438		SHEET 1 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
2	1369439			SCHEMATIC		REF						
17	1365026-03			DELAY LINE, Ultrasonic		1						
18	1366805-02			MODULE, Preamplifier, 60 MHz		1						
19	1366810-03			SHIELD, Delay Module, left		1						
20	1366812-03			INDUCTOR, Fixed, precision		2						
21	1366814-09			CABLE ASSEMBLY, 50 Ohm		1						
22	1366814-46			CABLE ASSEMBLY, 50 Ohm		1						
23	1366817-01			SPRING, Ground Clip		2						
24	1366881-04			CABLE ASSEMBLY, 50 Ohm		1						
25	1368188-83			LABEL, Module		1						
26	1368260-01			OVERLAY, Blank		1						
27	1369425-01			PRINTED WIRING ASSEMBLY, Double Tuned Equalizer		A/R						
28	1369427-01			PRINTED WIRING ASSEMBLY, Single Tuned Equalizer		A/R						
29	1369429-01			PRINTED WIRING ASSEMBLY, Peaking Equalizer		A/R						
30	1369431-01			PRINTED WIRING ASSEMBLY, Slope Equalizer		A/R						
31	1369448-01			SHIELD, Delay Module, right		1						
32	1369449-01			COVER, Module, bottom		1						
33	1369449-02			COVER, Module, top		1						
36	013-166			DIODE, Zener, 3.3V		1						
40	014-613			HEATSINK, Transistor, MW cooler		3						
41	014-715			MOUNTING PAD, Transistor		2						
42	014-783			MOUNTING PAD, Transistor		1						
54	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		31						
55	030-968			CAPACITOR, Ceramic, .033μF, 100V, 10%		2						
56	030-970			CAPACITOR, Ceramic, .01μF, 100V, 10%		7						
63	034-185			CAPACITOR, Mica, 75PF, 500V, ±5%		1						
64	034-215			CAPACITOR, Mica, 10PF, 500V, ±5%		1						
65	034-345			CAPACITOR, Mica, 3PF, 500V, ±.5PF		1						
66	034-532			CAPACITOR, Mica, 1PF, 500V, ±.5PF		1						
67	034-788			CAPACITOR, Mica, 27PF, 500V, ±2%		1						
68	034-759			CAPACITOR, Mica, 15PF, 500V, ±.5PF		1						
73	038-275			CAPACITOR, Variable, 5.5 - 18PF		1						
74	038-291			CAPACITOR, Variable, .5 - 3.5PF		1						
75	038-292			CAPACITOR, Variable, 1 - 10PF		1						

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4 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)					CATALOG NO. X1369438		SHEET 2 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
83	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2					
84	041-317			RESISTOR, Comp., 820 ohm, 1/2W, 5%		1					
85	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		1					
86	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1					
87	041-355			RESISTOR, Comp., 1.2K ohm, 1W, 5%		1					
88	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2					
89	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2					
90	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		1					
91	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1					
92	041-478			RESISTOR, Comp., 1.1K ohm, 1/2W, 5%		1					
93	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1					
94	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2					
95	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1					
96	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		2					
97	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1					
98	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1					
99	041-734			RESISTOR, Comp., 62 ohm, 1/4W, 5%		1					
100	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1					
101	041-983			RESISTOR, Comp., 300 ohm, 1W, 5%		1					
102	041-986			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1					
107	042-759			RESISTOR, Metal Film, 43.2 ohm, 1/8W, 1%		1					
108	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		3					
109	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1					
111	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1					
112	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2					
119	049-602			RESISTOR, Comp., 150 ohm, 1/8W, 5%		1					
124	051-718			INDUCTOR, Variable, 0.68μH		2					
125	051-727			INDUCTOR, Variable, 0.33μH		3					
126	051-751			INDUCTOR, Fixed, 22μH, 10%		1					
127	051-798			INDUCTOR, Variable, 1.0μH		1					
128	051-799			INDUCTOR, Variable, 0.075 - 0.150μH		1					
134	056-022			CAPACITOR, Mica, 6.8PF, 500V, ±.5PF		1					
135	056-388			CAPACITOR, Mica, 8.2PF, 500V, ±.5PF		2					

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4 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)					CATALOG NO. X1369438		SHEET 3 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
136	056-465			CAPACITOR, Mica, 13PF, 500V, ±.5PF		2					
142	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		2					
143	057-224			RESISTOR, Metal Film, 301 ohm, 1/8W, 1%		1					
149	058-517			RESISTOR, Variable, 10 ohm, 1/2W, 10%		1					
150	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1					
156	059-413			RESISTOR, Wirewound, 390 ohm, 3W,3%		1					
157	059-414			RESISTOR, Wirewound, 432 ohm, 3W,3%		1					
162	062-256			RESISTOR, Metal Film, 1.27K ohm, 1/4W, 1%		2					
163	062-044			RESISTOR, Metal Film, 402 ohm, 1/8W, 1%		1					
164	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		1					
165	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		1					
166	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1					
167	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1					
168	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2					
169	062-453			RESISTOR, Metal Film, 475 ohm, 1/8W, 1%		1					
170	062-472			RESISTOR, Metal Film, 51.1 ohm, 1/8W, 1%		1					
171	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1					
172	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2					
173	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1					
174	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		2					
175	062-648			RESISTOR, Metal Film, 45.3 ohm, 1/8W, 1%		1					
176	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1					
177	062-734			RESISTOR, Metal Film, 95.3 ohm, 1/8W, 1%		1					
178	062-768			RESISTOR, Metal Film, 255 ohm, 1/8W, 1%		1					
179	066-110			RESISTOR, Metal Film, 340 ohm, 1/8W, 1%		1					
180	066-164			RESISTOR, Metal Film, 210 ohm, 1/4W, 1%		1					

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4 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)				CATALOG NO. X1369438		SHEET 4 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
181	066-047			RESISTOR, Metal Film, 32.4 ohm, 1/8W, 1%		1					
186	087-063			GREASE, General Purpose, #4, silicone		A/R					
192	139-045			CONNECTOR, RF Receptacle, right angle, 50 ohm		1					
193	139-238			CONNECTOR, Jack, tip		3					
194	143-981			CONNECTOR, Jack, tip		24					
200	166-219			CONNECTOR, RF Receptacle, straight, 50 ohm,		8					
206	280-576			SPACER, Swage, 2-56 x 3/32		6					
207	280-998			MOUNTING PAD, Transistor		6					
213	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
214	471-559			SCREW, Binder Head, slot, 4-40 x .375		7					
215	472-113			SCREW, Cross-Recessed, pan head, 2-56 x .250		A/R					
216	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
217	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2					
218	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4					
219	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2					
225	496-004			NUT, Assembled Washer, 4-40		1					
231	501-008			WASHER, Plain, #4		4					
232	501-712			WASHER, Plain, brass, 1/4 x .032 thick		1					
233	501-715			WASHER, Shoulder, nylon, 1/4 x .062 thick		2					
234	501-740			WASHER, Flat, aluminum, 1/4 x .016		1					
235	502-094			WASHER, Lock, helical spring, #2		A/R					
241	540-052			INDUCTOR, Fixed, 6.8 $\mu$ H, 10%		2					
244	560-295			TRANSFORMER, Balanced, 50/200 ohm ct		1					
247	580-106	2N3866		TRANSISTOR		3					
248	580-124	2N5160		TRANSISTOR		1					
249	580-169	MD918		TRANSISTOR, Dual		1					
250	580-280	MM1607		TRANSISTOR		9					
251	580-292			TRANSISTOR		1					
252	580-348			HEATSINK, Transistor		1					
255	600-161			SLEEVING, Teflon, #22		A/R					

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4  $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 234)

CATALOG NO. X1369438

SHEET 5 OF 5

NHA 1366053

ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
256	602-012			CONNECTOR, Plug, shorting, red		4						
257	615-002			WIRE, Uninsulated, solid, 22 AWG		A/R						
259	932-034			FERRITE BEAD, .236 Long		11						
260	932-035			FERRITE BEAD, .118 Long		10						
261	932-037			FERRITE BEAD, .055 Long		2						

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, UPDATED FEB. 1971

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2 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)					CATALOG NO. X1366770		SHEET 1 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
2	1366771	051-800		SCHEMATIC		REF						
5	1366805-02			MODULE, Preamplifier		1						
6	1366810-02			SHIELD, Delay Module, left		1						
7	1366811-01			SHIELD, Delay Module, right		1						
8	1366812-03			INDUCTOR, Pretuned		2						
9	1366814-11			CABLE ASSEMBLY, 50 Ohm		1						
10	1366814-40			CABLE ASSEMBLY, 50 Ohm		1						
14	1366817-01			CLIP, Ground, transistor		1						
15	1365026-02			DELAY LINE, Ultrasonic		1						
18	1368260-01			OVERLAY, Module		1						
19	1368705-01			INDUCTOR, Fixed, precision		3						
21	103307-01			STANDOFF, .25 Long		6						
22	103307-02			STANDOFF, .125 Long		2						
26	013-166			DIODE, Zener, 3.3V		1						
27	014-613			HEATSINK, Transistor, MW cooler		3						
28	014-715			SPACER, Transistor		6						
29	014-783			SPACER, Transistor		1						
31	018-285			ADHESIVE, Thread Locking		A/R						
33	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		45						
34	030-968			CAPACITOR, Ceramic, .033μF, 100V, 10%		2						
36	034-156			CAPACITOR, Mica, 5PF, 500V, .5PF		1						
37	034-182			CAPACITOR, Mica, 56PF, 500V, 5%		1						
38	034-215			CAPACITOR, Mica, 10PF, 500V, 5%		2						
39	034-269			CAPACITOR, Mica, 22PF, 500V, 5%		1						
40	034-532			CAPACITOR, Mica, 1PF, 500V, .5PF		1						
41	034-788			CAPACITOR, Mica, 27PF, 500V, 2%		3						
42	034-945			CAPACITOR, Mica, 12PF, 500V, .5PF		2						
45	038-275			CAPACITOR, Variable, 5.5 - 18PF		1						
46	038-277			CAPACITOR, Variable, 9 - 35PF		1						
48	041-003			RESISTOR, Comp., 100 ohm, 1/2W, 5%		1						
49	041-009			RESISTOR, Comp., 1.8K ohm, 1/2W, 5%		1						
50	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2						
51	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		2						
52	041-331			RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		1						
53	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1						
54	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2						

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2 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)				CATALOG NO.	X1366770	SHEET 2 OF 5									
				NHA 1366053											
ITEM NO	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-01									
55	041-417			RESISTOR, Comp., 390 ohm, 1/4W, 5%		1									
56	041-425			RESISTOR, Comp., 47 ohm, 1/4W, 5%		1									
57	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2									
58	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		2									
59	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1									
60	041-442			RESISTOR, Comp., 2.7K ohm, 1/4W, 5%		1									
61	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1									
62	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2									
64	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1									
65	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		1									
66	041-559			RESISTOR, Comp., 120 ohm, 1/4W, 5%		1									
67	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1									
68	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1									
70	041-697			RESISTOR, Comp., 100 ohm, 1/8W, 5%		1									
71	041-733			RESISTOR, Comp., 56 ohm, 1/4W, 5%		1									
72	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1									
73	041-995			RESISTOR, Comp., 430 ohm, 2W, 5%		1									
75	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		2									
77	048-131			RESISTOR, Metal Film, 1.21K ohm, 1/2W, 1%		3									
78	048-136			RESISTOR, Metal Film, 681 ohm, 1/2W, 1%		1									
79	048-154			RESISTOR, Metal Film, 1.1K ohm, 1/2W, 1%		1									
80	048-403			RESISTOR, Metal Film, 499 ohm, 1/2W, 1%		1									
81	048-585			RESISTOR, Metal Film, 30.1 ohm, 1/8W, 1%		2									
82	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1									
83	048-669			RESISTOR, Metal Film, 845 ohm, 1/2W, 1%		1									
84	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1									
85	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2									
87	049-402			RESISTOR, Comp., 47 ohm, 1/8W, 5%		1									
88	049-597			RESISTOR, Comp., 160 ohm, 1W, 5%		1									
89	049-598			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1									
90	049-599			RESISTOR, Comp., 510 ohm, 2W, 5%		1									

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2 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)				CATALOG NO. X1366770		SHEET 3 OF 5							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
91	049-600			RESISTOR, Comp., 22 ohm, 1/8W, 5%		6							
93	051-717			INDUCTOR, Variable, 0.47μH		1							
94	051-724			INDUCTOR, Variable, 0.15μH		1							
95	051-725			INDUCTOR, Variable, 0.22μH		1							
96	051-727			INDUCTOR, Variable, 0.33μH		3							
97	051-751			INDUCTOR, Fixed, 22μH, 10%		1							
98	051-799			INDUCTOR, Variable, 0.075 - 0.150μH		1							
100	056-022			CAPACITOR, Mica, 6.8PF, 500V, .5PF		1							
101	056-388			CAPACITOR, Mica, 8.2PF, 500V, .5PF		1							
102	056-465			CAPACITOR, Mica, 13PF, 500V, .5PF		2							
103	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4							
104	057-196			RESISTOR, metal Film, 162 ohm, 1/8W, 1%		1							
105	057-513			RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		2							
107	058-516			RESISTOR, Variable, 50 ohm, 1/2W, 10%		3							
108	058-518			RESISTOR, Variable, 100 ohm, 1/2W, 5%		2							
109	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1							
110	058-538			RESISTOR, Variable, 200 ohm, 1/2W, 10%		1							
112	062-151			RESISTOR, Metal Film, ;75 ohm, 1/8W, 1%		4							
113	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		4							
114	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1							
115	062-379			RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		2							
116	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1							
117	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2							
118	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1							
119	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2							
120	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1							
121	062-522			RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		1							
122	062-523			RESISTOR, Metal Film, 422 ohm, 1/8W, 1%		1							

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2 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)				CATALOG NO. X1366770		SHEET 4 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
123	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		1					
124	062-627			RESISTOR, Metal Film, 374 ohm, 1/8W, 1%		1					
125	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1					
128	066-066			RESISTOR, Metal Film, 1.18K ohm, 1/2W, 1%		1					
129	066-067			RESISTOR, Metal Film, 60.4 ohm, 1/8W, 1%		1					
131	087-063			GREASE, Silicon, DC-4		A/R					
133	139-045			CONNECTOR, Printed Wiring Board, right angle, 50 ohm		1					
134	139-238			CONNECTOR, Jack, for .025 diameter pin		3					
135	143-981			CONNECTOR, Jack, for .040 diameter pin		26					
136	166-219			CONNECTOR, Printed Wiring Board, straight, 50 ohm		8					
138	280-998			SPACER, Transistor		7					
140	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
141	471-559			SCREW, Binder Head, slot, 4-40 x .375		7					
142	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
143	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2					
145	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4					
146	475-117			SCREW, Assembled washer, pan head, cross-recessed, 4-40 x .188		2					
147	496-004			NUT, Assembled Washer, 4-40		1					
149	501-008			WASHER, Flat, #4		4					
150	501-712			WASHER, Flat, brass, .032 thick		1					
151	501-715			WASHER, Shoulder, nylon		2					
152	501-740			WASHER, Flat, aluminum, 9-32 x .016		1					
154	540-052			INDUCTOR, Fixed, 6.8 $\mu$ H, 10%		2					
155	560-295			TRANSFORMER, BT8		1					
157	580-106	2N3866		TRANSISTOR		3					
158	580-124	2N5160		TRANSISTOR		1					
159	580-169	MC918		TRANSISTOR, Dual		1					
160	580-280	MM1607		TRANSISTOR		14					
161	580-292			TRANSISTOR		1					

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2 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)				CATALOG NO. X1366770		SHEET 5 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
162	580-348			HEATSINK, Transistor		1					
164	600-161			SLEEVING, Extruded, #22		A/R					
165	602-012			CONNECTOR, Plug, shorting, red		9					
166	615-002			WIRE, Bare, solid, 22 AWG		A/R					
169	932-034			FERRITE BEAD, .236 Long		12					
170	932-035			FERRITE BEAD, .118 Long		10					
171	932-037			FERRITE BEAD, .050 Long		2					

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2 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)					CATALOG NO. X1369436		SHEET 1 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
2	1369437			SCHEMATIC		REF							
17	1365026-02			DELAY LINE, Ultrasonic		1							
18	1366805-02			MODULE, Preamplifier, 60 MHz		1							
19	1366810-03			SHIELD, Delay Module, left		1							
20	1366812-03			INDUCTOR, Fixed, precision		2							
21	1366814-09			CABLE ASSEMBLY, 50 ohm		1							
22	1366814-46			CABLE ASSEMBLY, 50 ohm		1							
23	1366817-01			SPRING, Ground Clip		2							
24	1366881-04			CABLE ASSEMBLY, 50 ohm		1							
27	1369425-01			PRINTED WIRING ASSEMBLY, Double Tuned Equalizer		A/R							
28	1369427-01			PRINTED WIRING ASSEMBLY, Single Tuned Equalizer		A/R							
29	1369429-01			PRINTED WIRING ASSEMBLY, Peaking Equalizer		A/R							
30	1369431-01			PRINTED WIRING ASSEMBLY, Slope Equalizer		A/R							
31	1369448-01			SHIELD, Delay Module, right		1							
32	1369449-01			COVER, Module, bottom		1							
33	1369449-02			COVER, Module, top		1							
36	013-166			DIODE, Zener, 3.3V		1							
40	014-613			HEATSINK, Transistor, MW cooler		3							
41	014-715			MOUNTING PAD, Transistor		2							
42	014-783			MOUNTING PAD, Transistor		1							
54	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		31							
55	030-968			CAPACITOR, Ceramic, .033μF, 100V, 10%		2							
56	030-970			CAPACITOR, Ceramic, .01μF, 100V, 10%		7							
63	034-185			CAPACITOR, Mica, 75PF, 500V, ±5%		1							
64	034-215			CAPACITOR, Mica, 10PF, 500V, ±5%		1							
65	034-345			CAPACITOR, Mica, 3PF, 500V, ±.5PF		1							
66	034-532			CAPACITOR, Mica, 1PF, 500V, ±.5PF		1							
67	034-788			CAPACITOR, Mica, 27PF, 500V, ±2%		1							
68	034-759			CAPACITOR, Mica, 15PF, 500V, ±.5PF		1							
73	038-275			CAPACITOR, Variable, 5.5 - 18PF		1							
74	038-291			CAPACITOR, Variable, .5 - 3.5PF		1							
75	038-292			CAPACITOR, Variable, 1 - 10PF		1							
83	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2							
84	041-317			RESISTOR, Comp., 820 ohm, 1/2W, 5%		1							

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2 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)					CATALOG NO. X1369436	SHEET 2 OF 5						
					NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
85	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		1						
86	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1						
87	041-355			RESISTOR, Comp., 1.2K ohm, 1W, 5%		1						
88	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2						
89	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2						
90	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		1						
91	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1						
92	041-478			RESISTOR, Comp., 1.1K ohm, 1/2W, 5%		1						
93	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1						
94	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2						
95	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1						
96	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		2						
97	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1						
98	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1						
99	041-734			RESISTOR, Comp., 62 ohm, 1/4W, 5%		1						
100	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1						
101	041-983			RESISTOR, Comp., 300 ohm, 1W, 5%		1						
102	041-986			RESISTOR, Comp., 1.3K ohm, 1W, 5%		1						
107	042-759			RESISTOR, Metal Film, 43.2 ohm, 1/8W, 1%		1						
108	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		3						
109	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1						
111	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1						
112	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2						
119	049-602			RESISTOR, Comp., 150 ohm, 1/8W, 5%		1						
124	051-718			INDUCTOR, Variable, 0.68μH		2						
125	051-727			INDUCTOR, Variable, 0.33μH		3						
126	051-751			INDUCTOR, Fixed, 22μH, 10%		1						
127	051-798			INDUCTOR, Variable, 1.0μH		1						
128	051-799			INDUCTOR, Variable, 0.075 - 0.150μH		1						
134	056-022			CAPACITOR, Mica, 6.8PF, 500V, ±.5PF		1						
135	056-388			CAPACITOR, Mica, 8.2PF, 500V, ±.5PF		2						
136	056-465			CAPACITOR, Mica, 13PF, 500V, ±.5PF		2						

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2 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)					CATALOG NO. X1369436		SHEET 3 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
142	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		2					
143	057-224			RESISTOR, Metal Film, 301 ohm, 1/8W, 1%		1					
149	058-517			RESISTOR, Variable, 10 ohm, 1/2W, 10%		1					
150	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1					
156	059-413			RESISTOR, Wirewound, 390 ohm, 3W, 3%		1					
157	059-414			RESISTOR, Wirewound, 432 ohm, 3W, 3%		1					
162	062-256			RESISTOR, Metal Film, 1.27K ohm, 1/4W, 1%		2					
163	062-044			RESISTOR, Metal Film, 402 ohm, 1/8W, 1%		1					
164	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		1					
165	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		1					
166	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1					
167	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1					
168	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2					
169	062-453			RESISTOR, Metal Film, 475 ohm, 1/8W, 1%		1					
170	062-472			RESISTOR, Metal Film, 51.1 ohm, 1/8W, 1%		1					
171	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1					
172	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2					
173	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1					
174	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		2					
175	062-648			RESISTOR, Metal Film, 45.3 ohm, 1/8W, 1%		1					
176	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1					
177	062-734			RESISTOR, Metal Film, 95.3 ohm, 1/8W, 1%		1					
178	062-768			RESISTOR, Metal Film, 255 ohm, 1/8W, 1%		1					
179	066-110			RESISTOR, Metal Film, 340 ohm, 1/8W, 1%		1					
180	066-164			RESISTOR, Metal Film, 210 ohm, 1/4W, 1%		1					

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2 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)					CATALOG NO. X1369436		SHEET 4 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
181	066-047			RESISTOR, Metal Film, 32.4 ohm, 1/8W, 1%		1							
186	087-063			GREASE, General Purpose, #4, silicone		A/R							
192	139-045			CONNECTOR, RF Receptacle, right angle, 50 ohm		1							
193	139-238			CONNECTOR, Jack, tip		3							
194	143-981			CONNECTOR, Jack, tip		24							
200	166-219			CONNECTOR, RF Receptacle, straight, 50 ohm		8							
206	280-576			SPACER, Swage, 2-56 x 3/32		6							
207	280-998			MOUNTING PAD, Transistor		6							
213	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
214	471-559			SCREW, Binder Head, slot, 4-40 x .375		7							
215	472-113			SCREW, Cross-Recessed, pan head, 2-56 x .250		A/R							
216	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4							
217	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2							
218	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4							
219	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2							
225	496-004			NUT, Assembled Washer, 4-40		1							
231	501-008			WASHER, Plain, #4		4							
232	501-712			WASHER, Plain, brass, 1/4 x .032 thick		1							
233	501-715			WASHER, Shoulder, nylon, 1/4 x .062 thick		2							
234	501-740			WASHER, Flat, aluminum, 1/4 x .016		1							
235	502-094			WASHER, Lock, helical spring, #2		A/R							
241	540-052			INDUCTOR, Fixed, 6.8μH, 10%		2							
244	560-295			TRANSFORMER, Balanced, 50/200 ohm ct		1							
247	580-106	2N3866		TRANSISTOR		3							
248	580-124	2N5160		TRANSISTOR		1							
249	580-169	MD918		TRANSISTOR, Dual		1							
250	580-280	MM1607		TRANSISTOR		9							
251	580-292			TRAN SISTOR									
252	580-348			HEATSINK, Transistor		1							
255	600-161			SLEEIVING, Teflon, #22		A/R							

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2 $\mu$ SEC DELAY PRINTED WIRING ASSEMBLY (MODULE 235)				CATALOG NO. X1369436		SHEET 5 OF 5						
						NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
256	602-012			CONNECTOR, Plug, shorting, red		4						
257	615-002			WIRE, Uninsulated, solid, 22 AWG		A/R						
259	932-034			FERRITE BEAD, .236 Long		11						
260	932-035			FERRITE BEAD, .118 Long		10						
261	932-037			FERRITE BEAD, .055 Long		2						

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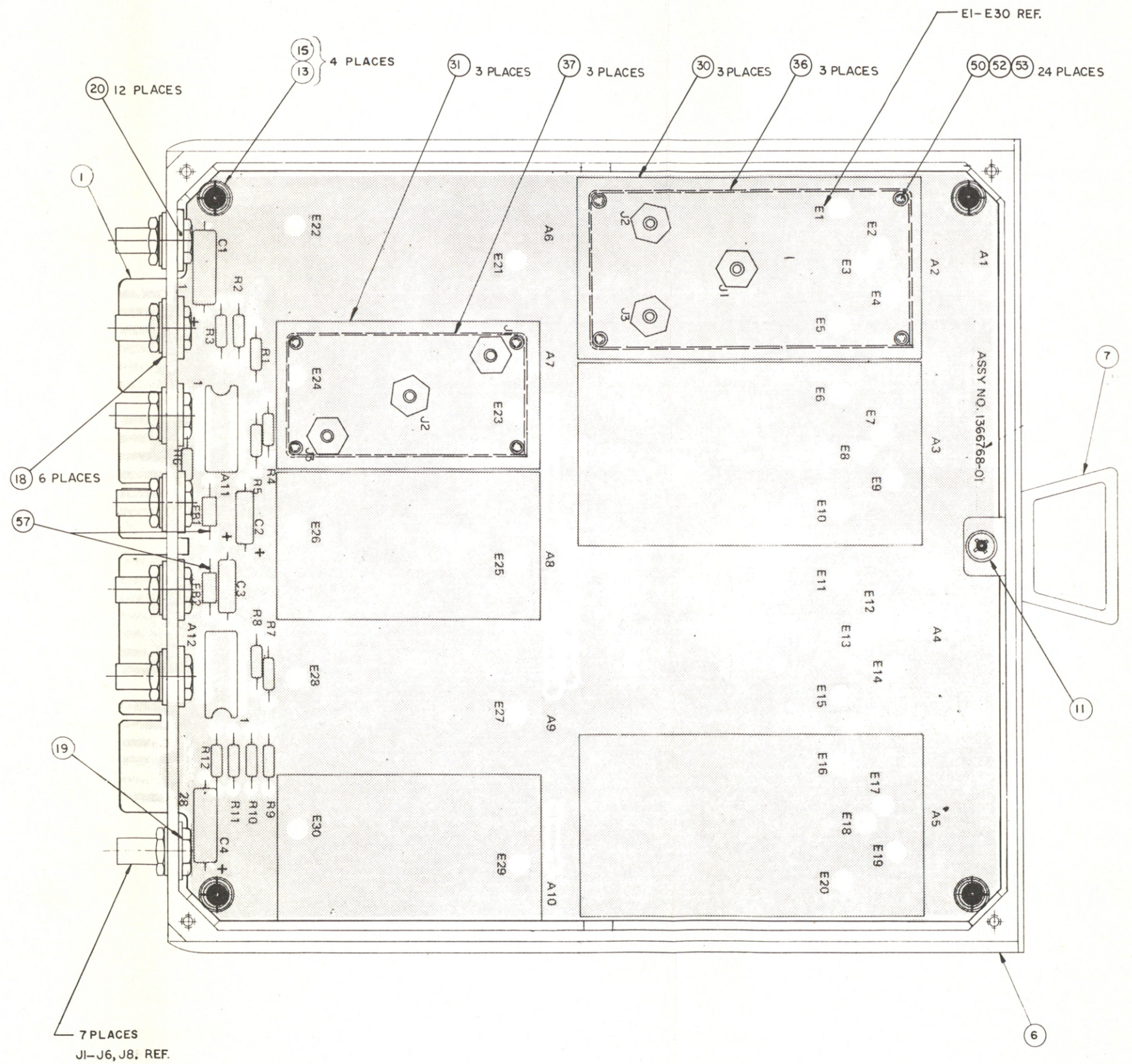
SWITCHER/LIMITER 3 PRINTED WIRING ASSEMBLY (MODULE 236)						CATALOG NO. 1366768		SHEET 1 OF 1					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1366769			SCHEMATIC		REF							
4	1368188-82			LABEL, Module		1							
5	1368260-01			OVERLAY, Module		1							
6	1363789-01			FRAME, Module		1							
7	1363791-01			HANDLE, Printed Wiring Board		1							
8	1365046-01			COVER, Module		2							
10	018-285			ADHESIVE, Thread Locking		A/R							
11	473-325			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x		1							
12	471-325			SCREW, Cross-recess, flat head, 4-40 x .188		8							
13	473-324			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .250		4							
15	501-008			WASHER, Plain, #4		4							
18	501-740			WASHER, Flat		6							
19	501-712			WASHER, Flat, brass, .032 thk		1							
20	501-715			WASHER, Shoulder, nylon		12							
23	1366814-02			CABLE ASSEMBLY, 50 ohm		2							
24	1366814-06			CABLE ASSEMBLY, 50 ohm		1							
25	1366814-08			CABLE ASSEMBLY, 50 ohm		1							
26	1366814-23			CABLE ASSEMBLY, 50 ohm		1							
27	1366814-30			CABLE ASSEMBLY, 50 ohm		2							
30	1367080-01		A2,3,5	PRINTED WIRING ASSEMBLY, Switcher		3							
31	1367082-01		A7,8,10	PRINTED WIRING ASSEMBLY, Limiter		3							
36	1367094-01			SHIELD, Switcher		3							
37	1367095-01			SHIELD, Limiter		3							
38	1367096-05			CABLE ASSEMBLY, 50 ohm		1							
39	1367096-08			CABLE ASSEMBLY, 50 ohm		1							
40	1367096-16			CABLE ASSEMBLY, 50 ohm		1							
41	1367096-21			CABLE ASSEMBLY, 50 ohm		1							
42	1367096-15			CABLE ASSEMBLY, 50 ohm		1							
44	037-472		C2,3	CAPACITOR, Tantalum, 4.7μF,10V,±10%		2							
45	037-991		C1,4	CAPACITOR, Tantalum, 22μF,15V,±10%		2							
47	041-419		R1,6,9,10	RESISTOR, Fixed, 100 ohm,1/4W,5%		4							
48	041-425		R2-5,7,8,11,12	RESISTOR, Fixed, 47 ohm,1/4W,5%		8							
50	472-113			SCREW, Cross-Recess,pan head, 2-56 x .250		24							
52	501-233			WASHER, Flat, #2		24							
53	502-023			WASHER, Internal Tooth, #2		24							
55	586-488	MC1235L	A11,12	INTEGRATED CIRCUIT		2							
57	615-004			WIRE, Bare, 24AWG		A/R							
59	932-034		FB1,2	FERRITE BEAD		2							
61	1368238-01			INSULATOR, Cover		1							

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AMPEX



Switcher/Limiter 3 Printed Wiring Assembly (Module 236)  
Dwg. No. 1366768



1 μSEC DELAY MODULE PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO. X1364648		SHEET 1 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
2	1364650			SCHEMATIC		REF					
6	1365026-01			DELAY LINE, Ultrasonic		1					
7	1366805-02			MODULE, Preamplifier		1					
8	1368705-01			INDUCTOR, Fixed, precision (051-800)		3					
9	1366810-02			SHIELD, Delay Module, left		1					
10	1366811-01			SHIELD, Delay Module, right		1					
11	1366812-03			INDUCTOR, Pretuned		2					
12	1366814-11			CABLE ASSEMBLY, 50 Ohm		1					
13	1366814-40			CABLE ASSEMBLY, 50 ohm		1					
14	1366816-01			COVER, Module		1					
15	1366816-03			COVER, Module		1					
16	1366817-01			CLIP, Ground, transistor		1					
18	1368188-83			LABEL, Module		1					
19	1368260-01			OVERLAY, Module		1					
20	103307-01			STANDOFF, .25 Long		6					
21	103307-02			STANDOFF, .125 Long		2					
23	013-166			DIODE, Zener, 3.3V		1					
27	014-613			HEATSINK, Transistor, MW cooler		3					
28	014-715			SPACER, Transistor		6					
29	014-783			SPACER, Transistor		1					
32	018-285			ADHESIVE, Thread Locking		A/R					
35	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		45					
36	030-968			CAPACITOR, Ceramic, .033μF, 100V, 10%		2					
40	034-156			CAPACITOR, Mica, 5PF, 500V, .5PF		1					
41	034-182			CAPACITOR, Mica, 56PF, 500V, 5%		1					
42	034-215			CAPACITOR, Mica, 10PF, 500V, 5%		2					
43	034-269			CAPACITOR, Mica, 22PF, 500V, 5%		1					
44	034-532			CAPACITOR, Mica, 1PF, 500V, .5PF		1					
45	034-788			CAPACITOR, Mica, 27PF, 500V, 2%		3					
46	034-945			CAPACITOR, Mica, 12PF, 500V, .5PF		2					
47	038-275			CAPACITOR, Variable, 5.5 -18PF		1					
48	038-277			CAPACITOR, Variable, 9-35PF		1					
51	041-003			RESISTOR, Comp., 100 ohm, 1/2W, 5%		1					
52	041-009			RESISTOR, Comp., 1.8K ohm, 1/2W, 5%		1					
53	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2					

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1 μSEC DELAY MODULE PRINTED WIRING ASSEMBLY (MODULE 237)						CATALOG NO. X1364648		SHEET 2 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
54	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		2							
55	041-331			RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		1							
56	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1							
57	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2							
58	041-417			RESISTOR, Comp., 390 ohm, 1/4W, 5%		1							
59	041-425			RESISTOR, Comp., 47 ohm, 1/4W, 5%		1							
60	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2							
61	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		2							
62	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1							
63	041-442			RESISTOR, Comp., 2700 ohm, 1/4W, 5%		1							
64	041-481			RESISTOR, Comp., 620 ohm, 2W, 5%		1							
65	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2							
66	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1							
67	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		1							
68	041-559			RESISTOR, Comp., 120 ohm, 1/4W, 5%		1							
69	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1							
70	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1							
71	041-697			RESISTOR, Comp., 100 ohm, 1/8W, 5%		1							
72	041-733			RESISTOR, Comp., 56 ohm, 1/4W, 5%		1							
73	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1							
74	041-995			RESISTOR, Comp., 430 ohm, 2W, 5%		1							
78	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		2							
82	048-131			RESISTOR, Metal Film, 1.21K ohm, 1/2W, 1%		3							
83	048-136			RESISTOR, Metal Film, 681 ohm, 1/2W, 1%		1							
84	048-154			RESISTOR, Metal Film, 1.1K ohm, 1/2W, 1%		1							
85	048-403			RESISTOR, Metal Film, 499 ohm, 1/2W, 1%		1							
86	048-585			RESISTOR, Metal Film, 30.1 ohm, 1/8W, 1%		2							
87	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1							
88	048-669			RESISTOR, Metal Film, 845 ohm, 1/2W, 1%		1							
89	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1							
90	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2							

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1 μSEC DELAY MODULE PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO. X1364648		SHEET 3 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
94	049-402			RESISTOR, Comp. , 47 ohm, 1/8W, 5%		1							
95	049-597			RESISTOR, Comp. , 160 ohm, 1W, 5%		1							
96	049-598			RESISTOR, Comp. , 1.3K ohm, 1W, 5%		1							
97	049-599			RESISTOR, Comp. , 510 ohm, 2W, 5%		1							
98	049-600			RESISTOR, Comp. , 22 ohm, 1/8W, 5%		6							
102	051-717			INDUCTOR, Variable, 0.47μH		1							
103	051-724			INDUCTOR, Variable, 0.15μH		1							
104	051-725			INDUCTOR, Variable, 0.22μH		1							
105	051-727			INDUCTOR, Variable, 0.33μH		3							
106	051-751			INDUCTOR, Fixed, 22μH, 10%		1							
107	051-799			INDUCTOR, Variable, 0.075 - 0.150μH		1							
111	056-022			CAPACITOR, Mica, 6.8PF, 500V, .5PF		1							
112	056-465			CAPACITOR, Mica, 13PF, 500V, .5PF		2							
113	056-388			CAPACITOR, Mica, 8.2PF, 500V, .5PF		1							
115	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4							
116	057-196			RESISTOR, Metal Film, 162 ohm, 1/8W, 1%		1							
117	057-513			RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		2							
120	058-516			RESISTOR, Variable, 50 ohm, 1/2W, 10%		3							
121	058-518			RESISTOR, Variable 100 ohm, 1/2W, 5%		2							
122	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1							
123	058-538			RESISTOR, Variable, 200 ohm, 1/2W, 10%		1							
127	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		4							
128	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		4							
129	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1							
130	062-379			RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		2							
131	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1							
132	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2							
133	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1							
134	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2							
135	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1							

X1364648B



1 μSEC DELAY MODULE PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO. X1364648		SHEET 4 OF 5							
							NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
136	062-522			RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		1								
137	062-523			RESISTOR, Metal Film, 422 ohm, 1/8W, 1%		1								
138	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		1								
139	062-627			RESISTOR, Metal Film, 374 ohm, 1/8W, 1%		1								
140	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1								
144	066-066			RESISTOR, Metal Film, 1.18K ohm, 1/2W, 1%		1								
145	066-067			RESISTOR, Metal Film, 60.4 ohm, 1/8W, 1%		1								
146	087-063			GREASE, Silicone, DC-4		A/R								
149	139-045			CONNECTOR, Printed Wiring Board, right angle, 50 ohm		1								
150	139-238			CONNECTOR, Jack, for .025 diameter pin		3								
153	143-981			CONNECTOR, Jack, for .040 diameter pin		26								
156	166-219			CONNECTOR, Printed Wiring Board, straight, 50 ohm		8								
157	280-998			SPACER, Transistor		7								
159	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8								
160	471-559			SCREW, Binder Head, slot, 4-40 x .375		7								
163	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4								
165	473-325			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .312		2								
168	475-046			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .375		4								
169	475-117			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .188		2								
171	496-004			NUT, Assembled Washer, 4-40		1								
173	501-008			WASHER, Flat, #4		4								
175	501-712			WASHER, Flat, brass, .032 thick		1								
176	501-715			WASHER, Shoulder, nylon		2								
177	501-740			WASHER, Flat, aluminum, 9-32 x .016		1								
180	540-052			INDUCTOR, Fixed, 6.8μH, 10%		2								
183	560-295			TRANSFORMER, BT8		1								
186	580-106	2N3866		TRANSISTOR		3								
187	580-124	2N5160		TRANSISTOR		1								

X1364648B

10-642B

UPDATED FEB. 1971

1 μSEC DELAY MODULE PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO. X1364648		SHEET 5 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
188	580-169	MD918		TRANSISTOR, Dual		1							
189	580-280	MM1607		TRANSISTOR		14							
190	580-292			TRANSISTOR		1							
191	580-348			HEATSINK, Transistor		1							
194	600-161			SLEEVING, Extruded, #22		A/R							
196	602-012			CONNECTOR, Plug, shorting, red		9							
198	615-002			WIRE, Bare, solid, 22 AWG		A/R							
202	932-034			FERRITE BEAD, .236 Long		12							
203	932-035			FERRITE BEAD, .118 Long		10							
204	932-037			FERRITE BEAD, .050 Long		2							

X1364648B

UPDATED FEB. 1971

10-641C/642C

1 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO. X1369434		SHEET 1 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
2	1369435			SCHEMATIC		REF							
17	1365026-01			DELAY LINE, Ultrasonic		1							
18	1366805-02			MODULE, Preamplifier, 60 MHz		1							
19	1366810-03			SHIELD, Delay Module, left		1							
20	1366812-03			INDUCTOR, Fixed, precision		2							
21	1366814-09			CABLE ASSEMBLY, 50 ohm		1							
22	1366814-46			CABLE ASSEMBLY, 50 ohm		1							
23	1366817-01			SPRING, Ground Clip		2							
24	1366881-04			CABLE ASSEMBLY, 50 ohm		1							
27	1369425-01			PRINTED WIRING ASSEMBLY, Double Tuned Equalizer		A/R							
28	1369427-01			PRINTED WIRING ASSEMBLY, Single Tuned Equalizer		A/R							
29	1369429-01			PRINTED WIRING ASSEMBLY, Peaking Equalizer		A/R							
30	1369431-01			PRINTED WIRING ASSEMBLY, Slope Equalizer		A/R							
31	1369448-01			SHIELD, Delay Module, right		1							
32	1369449-01			COVER, Module, bottom		1							
33	1369449-02			COVER, Module, top		1							
36	013-166			DIODE, Zener, 3.3V		1							
40	014-613			HEATSINK, Transistor, MW cooler		3							
41	014-715			MOUNTING PAD, Transistor		2							
42	014-783			MOUNTING PAD, Transistor		1							
54	030-966			CAPACITOR, Ceramic, .01μF, 100V, 10%		31							
55	030-968			CAPACITOR, Ceramic, .033μF, 100V, 10%		2							
56	030-970			CAPACITOR, Ceramic, .01μF, 100V, 10%		7							
63	034-185			CAPACITOR, Mica, 75PF, 500V, ±5%		1							
64	034-215			CAPACITOR, Mica, 10PF, 500V, ±5%		1							
65	034-345			CAPACITOR, Mica, 3PF, 500V, ±.5PF		1							
66	034-532			CAPACITOR, Mica, 1PF, 500V, ±.5PF		1							
67	034-788			CAPACITOR, Mica, 27PF, 500V, ±2%		1							
68	034-759			CAPACITOR, Mica, 15PF, 500V, ±.5PF		1							
73	038-275			CAPACITOR, Variable, 5.5 - 18PF		1							
74	038-291			CAPACITOR, Variable, .5 - 3.5PF		1							
75	038-292			CAPACITOR, Variable, 1 - 10PF		1							
83	041-096			RESISTOR, Comp., 100 ohm, 1W, 5%		2							
84	041-317			RESISTOR, Comp., 820 ohm, 1/2W, 5%		1							

X1369434-



1 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO.	X1369434		SHEET 2 OF 5			
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
85	041-329			RESISTOR, Comp., 330 ohm, 1/2W, 5%		1					
86	041-343			RESISTOR, Comp., 680 ohm, 1/2W, 5%		1					
87	041-355			RESISTOR, Comp., 1.2K ohm, 1W, 5%		1					
88	041-410			RESISTOR, Comp., 1K ohm, 1/4W, 5%		2					
89	041-430			RESISTOR, Comp., 1.5K ohm, 1/4W, 5%		2					
90	041-434			RESISTOR, Comp., 1.8K ohm, 1/4W, 5%		1					
91	041-435			RESISTOR, Comp., 150 ohm, 1/4W, 5%		1					
92	041-478			RESISTOR, Comp., 1.1K ohm, 1/2W, 5%		1					
93	041-481			RESISTOR, Comp., 620 ohm, 2W, 5% 1		1					
94	041-496			RESISTOR, Comp., 10 ohm, 1/4W, 5%		2					
95	041-522			RESISTOR, Comp., 910 ohm, 1/2W, 5%		1					
96	041-554			RESISTOR, Comp., 51 ohm, 1/4W, 5%		2					
97	041-569			RESISTOR, Comp., 300 ohm, 1/4W, 5%		1					
98	041-593			RESISTOR, Comp., 110 ohm, 1/2W, 5%		1					
99	041-734			RESISTOR, Comp., 62 ohm, 1/4W, 5%		1					
100	041-832			RESISTOR, Comp., 240 ohm, 1W, 5%		1					
101	041-983			RESISTOR, Comp., 300 ohm, 1W, 5%		1					
102	041-986			RESISTOR, Comp., 1.3K, 1W, 5%		1					
107	042-759			RESISTOR, Metal Film, 43.2 ohm, 1/8W, 1%		1					
108	042-763			RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		3					
109	048-615			RESISTOR, Metal Film, 1.21K ohm, 1/4W, 1%		1					
111	048-797			RESISTOR, Metal Film, 1.13K ohm, 1/2W, 1%		1					
112	048-945			RESISTOR, Metal Film, 402 ohm, 1/2W, 1%		2					
119	049-602			RESISTOR, Comp., 150 ohm, 1/8W, 5%		1					
124	051-718			INDUCTOR, Variable, 0.68μH		2					
125	051-727			INDUCTOR, Variable, 0.33μH		3					
126	051-751			INDUCTOR, Fixed, 22μH, 10%		1					
127	051-798			INDUCTOR, Variable, 1.0μH		1					
128	051-799			INDUCTOR, Variable, 0.075 - 0.150μH		1					
134	056-022			CAPACITOR, Mica, 6.8PF, 500V, ±.5PF		1					
135	056-388			CAPACITOR, Mica, 8.2PF, 500V, ±.5PF		2					
136	056-465			CAPACITOR, Mica, 13PF, 500V, ±.5PF		2					

X1369434-

1 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO. X1369434		SHEET 3 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
142	057-195			RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		2					
143	057-224			RESISTOR, Metal Film, 301 ohm, 1/8W, 1%		1					
149	058-517			RESISTOR, Variable, 10 ohm, 1/2W, 10%		1					
150	058-519			RESISTOR, Variable, 50 ohm, 1/2W, 5%		1					
156	059-413			RESISTOR, Wirewound, 390 ohm, 3W, 3%		1					
157	059-414			RESISTOR, Wirewound, 432 ohm, 3W, 3%		1					
162	062-256			RESISTOR, Metal Film, 1.27K ohm, 1/4W, ±1%		2					
163	062-044			RESISTOR, Metal Film, 402 ohm, 1/8W, 1%		1					
164	062-151			RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		1					
165	062-152			RESISTOR, Metal Film, 147 ohm, 1/8W, 1%		1					
166	062-244			RESISTOR, Metal Film, 69.8 ohm, 1/8W, 1%		1					
167	062-424			RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1					
168	062-435			RESISTOR, Metal Film, 105 ohm, 1/8W, 1%		2					
169	062-453			RESISTOR, Metal Film, 475 ohm, 1/8W, 1%		1					
170	062-472			RESISTOR, Metal Film, 51.1 ohm, 1/8W, 1%		1					
171	062-480			RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1					
172	062-515			RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2					
173	062-521			RESISTOR, Metal Film, 54.9 ohm, 1/8W, 1%		1					
174	062-537			RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		2					
175	062-648			RESISTOR, Metal Film, 45.3 ohm, 1/8W, 1%		1					
176	062-705			RESISTOR, Metal Film, 20 ohm, 1/8W, 1%		1					
177	062-734			RESISTOR, Metal Film, 95.3 ohm, 1/8W, 1%		1					
178	062-768			RESISTOR, Metal Film, 255 ohm, 1/8W, 1%		1					
179	066-110			RESISTOR, Metal Film, 340 ohm, 1/8W, 1%		1					
180	066-164			RESISTOR, Metal Film, 210 ohm, 1/4W, 1%		1					

X1369434-

1 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO. X1369434		SHEET 4 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
181	066-047			RESISTOR, Metal Film, 32.4 ohm, 1/8W, 1%		1					
186	087-063			GREASE, General Purpose, #4, silicone		A/R					
192	139-045			CONNECTOR, RF Receptacle, right angle, 50 ohm		1					
193	139-238			CONNECTOR, Jack, tip		3					
194	143-981			CONNECTOR, Jack, tip		24					
200	166-219			CONNECTOR, RF Receptacle, straight, 50 ohm		8					
206	280-576			SPACER, Swage, 2-56 x 3/32		6					
207	280-998			MOUNTING PAD, Transistor		6					
213	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
214	471-559			SCREW, Binder Head, slot, 4-40 x .375		7					
215	472-113			SCREW, Cross-Recessed, pan head, 2-56 x .250		A/R					
216	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
217	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		2					
218	475-046			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .375		4					
219	475-117			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .188		2					
225	496-004			NUT, Assembled Washer, 4-40		1					
231	501-008			WASHER, Plain, #4		4					
232	501-712			WASHER, Plain, brass, 1/4 x .032 thick		1					
233	501-715			WASHER, Shoulder, nylon, 1/4X .062 thick		2					
234	501-740			WASHER, Flat, aluminum, 1/4 x .016		1					
235	502-094			WASHER, Lock, helical spring, #2		A/R					
241	540-052			INDUCTOR, Fixed, 6.8μH, 10%		2					
244	560-295			TRANSFORMER, Balanced, 50/200 ohm, ct		1					
247	580-106	2N3866		TRANSISTOR		3					
248	580-124	2N5160		TRANSISTOR		1					
249	580-169	MD918		TRANSISTOR, Dual		1					
250	580-280	MM1607		TRANSISTOR		9					
251	580-292			TRANSISTOR		1					
252	580-348			HEATSINK, Transistor		1					
255	600-161			SLEEVING, Teflon, #22		A/R					

X1369434-



1 μSEC DELAY PRINTED WIRING ASSEMBLY (MODULE 237)					CATALOG NO. X1369434		SHEET 5 OF 5					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
256	602-012			CONNECTOR, Plug, shorting, red		4						
257	615-002			WIRE, Uninsulated, solid, 22 AWG		A/R						
259	932-034			FERRITE BEAD, .236 Long		11						
260	932-035			FERRITE BEAD, .118 Long		10						
261	932-037			FERRITE BEAD, .055 Long		2						

X1369434-

60 MHz DOUBLE-TUNED EQUALIZER PRINTED WIRING ASSEMBLY					CATALOG NO. X1369425	SHEET 1 OF 1							
						NHA1369434,36,38,40,42,44							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
2	1369426			SCHEMATIC		REF							
3	1366881-03		P4	CABLE ASSEMBLY, 50 Ohm		1							
6	014-715		Q3	SPACER, Transistor		1							
9	030-966		C1-4	CAPACITOR, Ceramic, .01μF, 100V, 10%, rectangular		4							
10	034-251		C7	CAPACITOR, Mica, 39PF, 500V, ±.5PF		1							
11	034-759		C8	CAPACITOR, Mica, 15PF, 500V, ±.5PF		1							
12	038-276		C9	CAPACITOR, Variable, 7 - 25PF		1							
15	041-355		R3	RESISTOR, Comp., 1200 ohm, 1W, 5%		1							
16	041-427		R2	RESISTOR, Comp., 330 ohm, 1/4W, 5%		1							
17	041-435		R4	RESISTOR, Comp., 150 ohm, 1/4W, 5%		1							
18	042-808		R1	RESISTOR, Metal Film, 953 ohm, 1/2W, 1%		1							
21	051-717		L2,3	INDUCTOR, Variable, .47μH		2							
25	057-195		R7	RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		1							
26	057-816		R6	RESISTOR, Metal Film, 576 ohm, 1/4W, 1%		1							
27	058-564		R9	RESISTOR, Variable, 500 ohm, 1/2W, 10%		1							
28	062-531		R5,8	RESISTOR, Metal Film, 44.2 ohm, 1/8W, 1%		2							
31	064-074		C5,6	CAPACITOR, Ceramic, .01μF, 50V, 10%		2							
34	143-981		J1 A, B, C	CONNECTOR, Jack, for .040 diameter pin		3							
35	166-219		J2	CONNECTOR, RF, 50 ohm		1							
39	580-280	MM1607	Q1-3	TRANSISTOR		3							
42	602-012		J1	CONNECTOR, Plug, shorting		1							
45	615-002			WIRE, Bare, solid, 22 AWG		A/R							
48	932-034		FB1,2	FERRITE BEAD, .236 Long		2							
49	932-035		Col of Q1 Base of Q2	FERRITE BEAD, .118 Long		2							

X1369425A

60 MHz SINGLE-TUNED EQUALIZER PRINTED WIRING ASSEMBLY					CATALOG NO. X1369427	SHEET 1 OF 1						
						NHA1369434, 36,38,40,42, 44						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
2	1369428			SCHEMATIC		REF						
3	1366881-03		P4	CABLE ASSEMBLY, 50 Ohm		1						
6	014-715		Q3	SPACER, Transistor		1						
9	030-966		C1-4	CAPACITOR, Ceramic, .01μF, 100V, 10%		4						
10	038-275		C7	CAPACITOR, Variable, 5.5 - 18PF		1						
13	041-355		R3	RESISTOR, Comp., 1200 ohm, 1W, 5%		1						
14	041-427		R2	RESISTOR, Comp., 330 ohm, 1/4W, 5%		1						
15	041-435		R4	RESISTOR, Comp., 150 ohm, 1/4W, 5%		1						
16	042-808		R1	RESISTOR, Metal Film, 953 ohm, 1/2W, 1%		1						
19	051-717		L2	INDUCTOR, Variable, .47μH		1						
23	057-195		R7	RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		1						
24	057-816		R6	RESISTOR, Metal Film, 576 ohm, 1/4W, 1%		1						
26	062-531		R5, 8	RESISTOR, Metal Film, 44.2 ohm, 1/8W, 1%		2						
29	064-074		C5, 6	CAPACITOR, Ceramic, .01μF, 50V, 10%		2						
32	143-981		J1 A, B, C	CONNECTOR, Jack, for .040 diameter pin		3						
33	166-219		J2	CONNECTOR, RF, 50 ohm		1						
38	580-280	MM1607	Q1-3	TRANSISTOR		3						
41	602-012		J1	CONNECTOR, Plug, shorting		1						
44	615-002			WIRE, Bare, solid, 22 AWG	A/R							
47	932-034		FB1, 2	FERRITE, BEAD, .236 Long		2						
48	932-035		Base of Q2 Col of Q1	FERRITE BEAD, .118 Long		2						

X1369427A



60 MHz SLOPE EQUALIZER PRINTED WIRING ASSEMBLY						CATALOG NO. X1369429		SHEET 1 OF 1					
								NHA1369434,36,38, 40, 42, 44					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
2	1369430			SCHEMATIC		REF							
3	1366881-03		P4	CABLE ASSEMBLY, 50 Ohm		1							
5	014-715		Q3	SPACER, Transistor		1							
8	030-966		C1,3,5,8,10,11	CAPACITOR, Ceramic, .01μF,100V, 10%		6							
9	034-215		C7	CAPACITOR, Mica, 10PF, 500V, ±.5PF		1							
10	034-532		C4	CAPACITOR, Mica, 1PF, 500V, ±.5PF		1							
11	034-945		C6	CAPACITOR, Mica, 12PF, 500V, ±5%		1							
14	041-355		R4	RESISTOR, Comp., 1200 ohm, 1W, 5%		1							
15	041-419		R7	RESISTOR, Comp., 100 ohm, 1/4W, 5%		1							
16	041-427		R2	RESISTOR, Comp., 330 ohm, 1/4W, 5%		1							
17	041-435		R3	RESISTOR, Comp., 150 ohm, 1/4W, 5%		1							
19	042-808		R1	RESISTOR, Metal Film, 953 ohm, 1/2W, 1%		1							
20	048-260		R10	RESISTOR, Metal Film, 681 ohm, 1/4W, 1%		1							
23	051-725		L2	INDUCTOR, Variable, .22μH		1							
26	056-105		C9	CAPACITOR, Mica, 18PF, 500V, ±.5PF		1							
29	057-195		R8	RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		1							
30	058-720		R9	RESISTOR, Variable, 200 ohm, 1/2W, 5%		1							
31	062-531		R5,6	RESISTOR, Metal Film, 44.2 ohm, 1/8W, 1%		2							
34	064-074		C2	CAPACITOR, Ceramic, .01μF, 50V,10%		1							
37	143-981		J1 A, B, C	CONNECTOR, Jack, .040 diameter		3							
38	166-219		J2	CONNECTOR, RF, 50 ohm		1							
42	540-056		L1	INDUCTOR, Fixed, 2.7μH, ±5%		1							
45	580-280	MM1607	Q1-3	TRANSISTOR		3							
48	602-012		J1	CONNECTOR, Plug, shorting		1							
51	615-002			WIRE, Bare, solid, 22 AWG	A/R								
54	932-034		FB1,2	FERRITE BEAD, .236 Long		2							
55	932-035		Base of Q2 Col of Q1	FERRITE BEAD, .118 Long		2							

X1369429A

60 MHz PEAKING EQUALIZER PRINTED WIRING ASSEMBLY						CATALOG NO. X1369431		SHEET 1 OF 1			
								NHA1369434,36,38,40,42,44			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
2	1369432			SCHEMATIC		REF					
3	1366881-03		P4	CABLE ASSEMBLY, 50 Ohm		1					
4	103307-02		R10	SPACER, .125 Long		2					
7	014-715		Q3, 4	SPACER, Transistor		2					
10	030-966		C1-4, 8	CAPACITOR, Ceramic, .01μF, 100V, ±10%, rectangular		5					
11	038-275		C9	CAPACITOR, Variable, 5.5 - 18PF		1					
14	041-008		R7	RESISTOR, Comp., 1500 ohm, 1/2W, 5%		1					
15	041-245		R11	RESISTOR, Comp., 1000 ohm, 1/2W, 5%		1					
16	041-355		R3	RESISTOR, Comp., 1200 ohm, 1W, 5%		1					
17	041-427		R2	RESISTOR, Comp., 330 ohm, 1/4W, 5%		1					
18	041-435		R4	RESISTOR, Comp., 150 ohm, 1/4W, 5%		1					
19	048-887		R6	RESISTOR, Metal Film, 340 ohm, 1/4W, 1%		1					
22	051-650		L1	INDUCTOR, Fixed, .68μH, 5%		1					
25	056-388		C7	CAPACITOR, Mica, 8.2PF, 500V, ±.5PF		1					
28	057-262		R1	RESISTOR, Metal Film, 750 ohm, 1/2W, 1%		1					
29	058-538		R13	RESISTOR, Variable, 200 ohm, 1/2W,10%		1					
30	058-564		R12	RESISTOR, Variable, 500 ohm, 1/2W,10%		1					
31	062-531		R5	RESISTOR, Metal Film, 44.2 ohm, 1/8W, 1%		1					
32	062-633		R8	RESISTOR, Metal Film, 93.1 ohm, 1/8W, 1%		1					
33	062-734		R9	RESISTOR, Metal Film, 95.3 ohm, 1/8W, 1%		1					
36	064-074		C5, 6, 10	CAPACITOR, Ceramic, .01μF, 50V,10%		3					
39	066-168		R10	RESISTOR, Metal Film, 205 ohm, 1/8W, 1%		1					
42	143-981		J1 A, B	CONNECTOR, Jack, .040 diameter		2					
43	166-219		J2	CONNECTOR, RF, 50 ohm		1					
47	580-280	MM1607	Q1-4	TRANSISTOR		4					
50	602-012		J1	CONNECTOR, Plug, shorting		1					
53	615-002			WIRE, Bare, solid, 22 AWG		A/R					
56	932-034		FB1-3	FERRITE BEAD, .236 Long		3					
57	932-035		Col of Q1 Base of Q2	FERRITE BEAD, .118 Long		2					

X1369431A

60 MHz PREAMPLIFIER MODULE				CATALOG NO. X1366805		SHEET 1 OF 1						
						NHA 1364648,1366770,72,74,76,78,1369434						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
1	1366806	P1		SCHEMATIC		REF						
3	1366808-01			PRINTED WIRING BOARD, Preamplifier Assembly		1						
5	1366821-01			BLOCK, Connector Mounting		1						
6	1366822-01			CABLE ASSEMBLY, 50 ohm		1						
7	1366823-02			HOUSING PREAMPLIFIER		1						
8	1366824-01			COVER, Housing, preamplifier		1						
9	1366808-02			PRINTED WIRING ASSEMBLY, Preamplifier		1						
				* NHA (Cont.) 1369436, 38, 40, 42, 44								

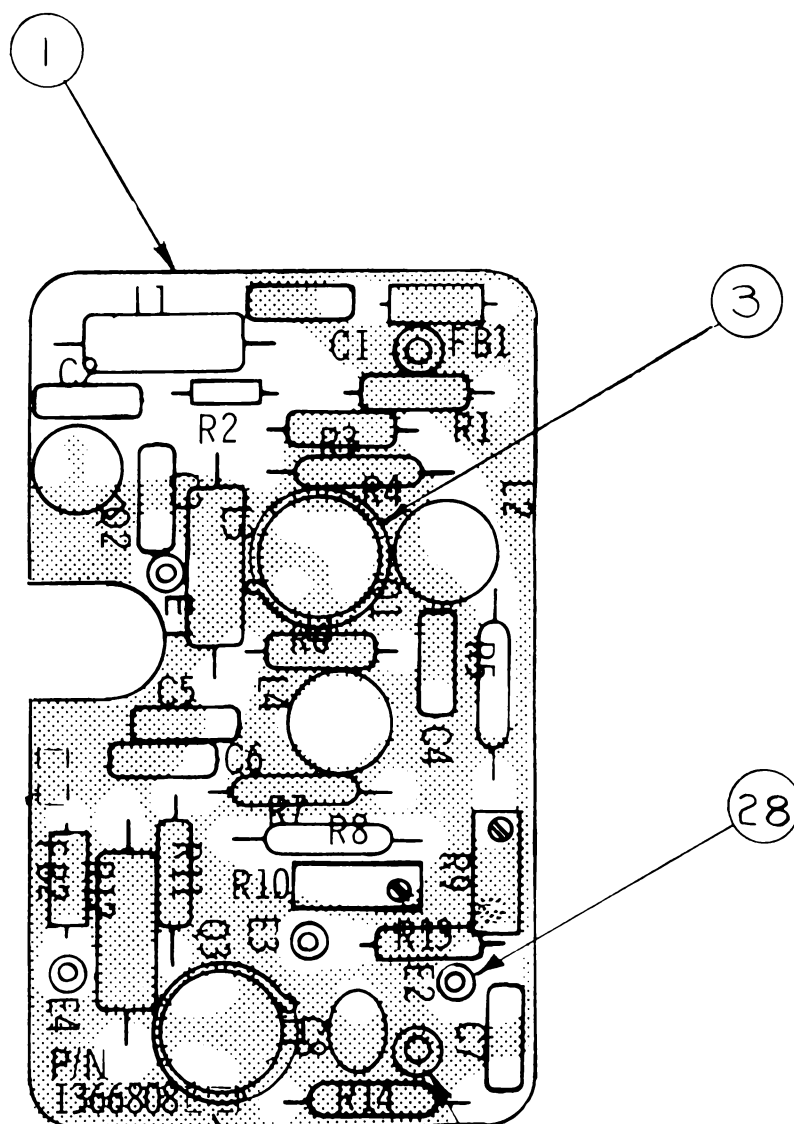
X1366805C

1  
UPDATED FEB. 1971

10-641K/642K



# AMPEX

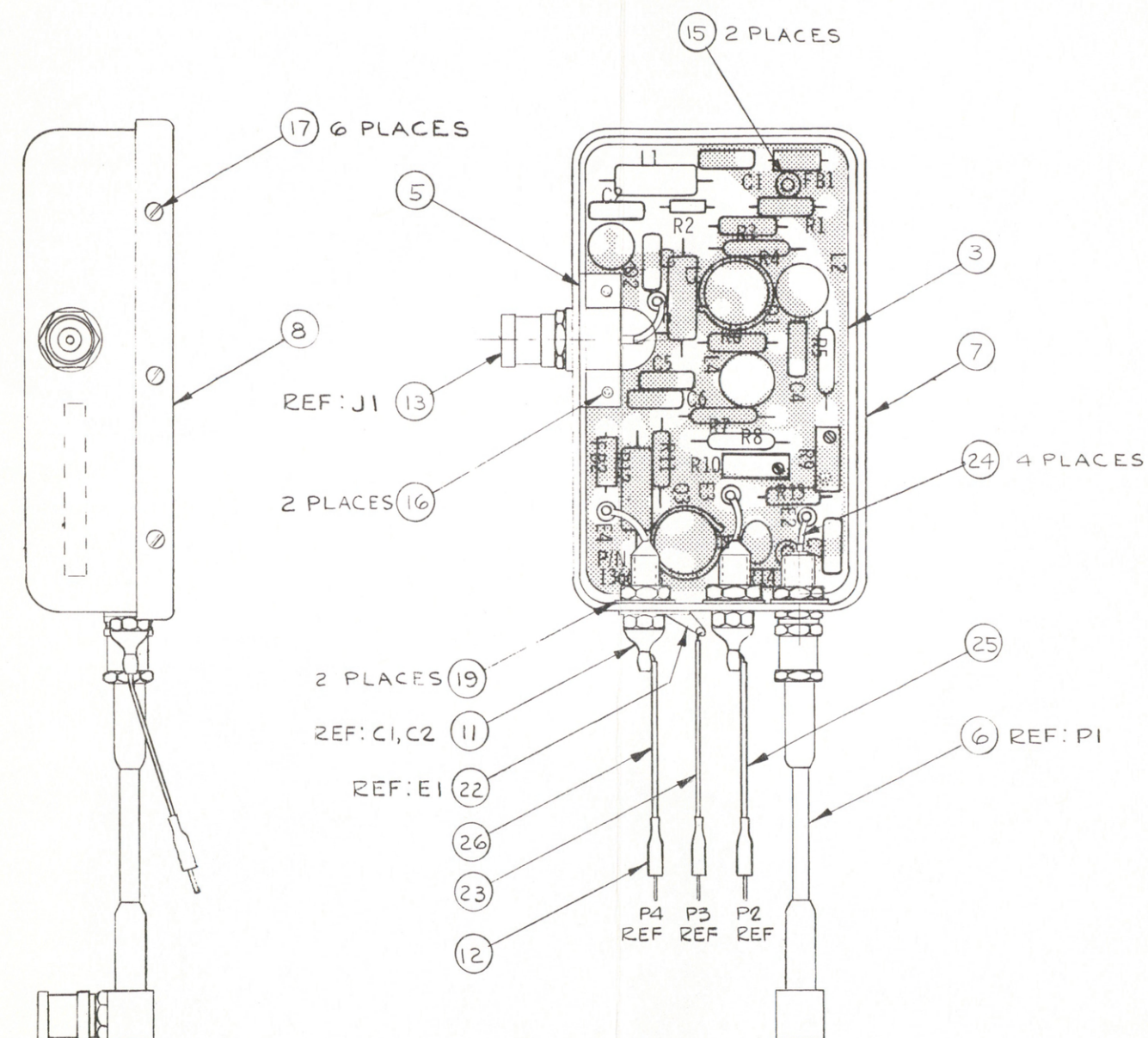


60-MHz Preamplifier Module Assembly  
Drawing No. 1366805C

60 MHz PREAMPLIFIER PRINTED WIRING ASSEMBLY						CATALOG NO. X1366808		SHEET 1 OF 1					
								NHA 1366805					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
3.	1366817-01		Q1,3	CLIP, Ground, transistor		2							
5	014-715		Q2	SPACER, Transistor		1							
6	014-783		Q1,3	SPACER, Transistor		2							
8	030-966		C1-7	CAPACITOR, Ceramic, .01μF, 100V, ±10%		7							
9	056-157		C8	CAPACITOR, Mica, 10PF, 500V, .5PF		1							
11	041-404		R12	RESISTOR, Composition, 510 ohm, 1/2W, ±5%		1							
12	041-414		R11	RESISTOR, Composition, 2.2K ohm, 1/4W, ±5%		1							
13	041-430		R6	RESISTOR, Composition, 1.5K ohm, 1/4W, ±5%		1							
14	041-560		R1,3	RESISTOR, Composition, 2.0K ohm, 1/4W, ±5%		2							
15	041-554		R13	RESISTOR, Composition, 51 ohm, 1/4W, ±5%		1							
16	062-531		R14	RESISTOR, Metal Film, 44.2 ohm, 1/8W, ±1%		1							
20	062-425		R4	RESISTOR, Metal Film, 49.9 ohm, 1/8W, ±1%		1							
21	062-792		R8	RESISTOR, Metal Film, 698 ohm, 1/8W, ±1%		1							
22	057-516		R5	RESISTOR, Metal Film, 154 ohm, 1/8W, ±1%		1							
23	062-511		R7	RESISTOR, Metal Film, 549 ohm, 1/8W, ±1%		1							
25	041-694		R2	RESISTOR, Composition, 10 ohm, 1/8W, ±5%		1							
26	058-538		R9,10	RESISTOR, Variable, 200 ohm, .5W, ±10%		2							
28	187-053		E1-4	TERMINAL, Solder, printed circuit board 1462-2		4							
29	280-123			NUT, 2-56, swage, hex		2							
30	932-034		FB1,2	FERRITE BEADS		2							
31	540-024		L1,3	INDUCTOR, Fixed, 2.7μH, ±10%		2							
32	051-802		L4	INDUCTOR, Variable, 4.7μH		1							
33	051-782		L2	INDUCTOR, Variable, .33μH		1							
34	615-004			WIRE, Bare, 24 AWG		A/R							
35	580-169	MD918	Q3	TRANSISTOR, Dual		1							
36	580-315	MD4957	Q1	TRANSISTOR, Dual		1							
37	580-252	2N4134	Q2	TRANSISTOR		1							

X1366808C

AMPEX



## NOTES:

1. PART NUMBER IS 1366805-02.

60-MHz Preamplifier Printed Wiring Assembly  
Drawing No. 1366808C

UPDATED FEB. 1971

10-641N/642N



TAPPED DELAY #1 PRINTED WIRING ASSEMBLY (MODULE 238)					CATALOG NO. 1364666		SHEET 1 OF 3				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364668			SCHEMATIC		REF					
4	1368188-84			LABEL		1					
5	1368260-01			OVERLAY		1					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
9	1365671-01			COVER, Module		-					
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
16	302-395			STRAP, Cable		2					
18	501-740			WASHER, Aluminum, 9/32 x .016		2					
19	501-712		J8	WASHER, Flat, brass, .032 thick		1					
20	501-715		J1,J4	WASHER, Shoulder, nylon		4					
21	1366814-01		J4	CABLE ASSEMBLY		1					
22	1366814-11		J8	CABLE ASSEMBLY		1					
23	1366817-01		Q1,7,8,11,14,16,19	SPRING, Grounding Clip		7					
24	1366880-01		L12,14,16,18,20,22,24,26,31,33,35,37,39,41,43,45	INDUCTOR, Fixed, 1.5μH		16					
25	1366880-02		L13,15,17,19,21,23,25,32,34,36,38,40,42,44	INDUCTOR, Fixed, 1.5μH		14					
26	1366881-07		J14,16	CABLE ASSEMBLY		2					
27	1366882-03			SHIELD, Fence		2					
28	1366883-01		L3,7	INDUCTOR, Fixed, .450μH		2					
29	1366883-02		L5	INDUCTOR, Fixed, .538μH		1					
30	1366814-60		J1	CABLE, Assembly		1					
33	013-224		VR1-4	DIODE, Zener, 6.8V		4					
34	013-677		CR1-3	DIODE		3					
36	014-248		Q9	TRANSISTOR		1					
37	014-576	2N2784	Q4,5,12,13,17,18	TRANSISTOR		6					
38	014-581		Q2,3,6,10,15	TRANSISTOR		5					
39	014-715	TO-18	Q2-6,9,10,12,13,15,17,18	SPACER, Transistor		12					
40	014-783		Q1,7,8,11,14,16,19	SPACER, Transistor		7					
43	034-156		C10,11	CAPACITOR, Mica 5PF, 500V, ±.5PF		2					
44	056-022		C39,63	CAPACITOR, Mica, 6.8PF, 500V, ±.5PF		2					
45	034-222		C5,8	CAPACITOR, Mica, 100PF, 500V, ±1%		2					
46	034-225		C6,9	CAPACITOR, Mica, 220PF, 500V, ±1%		2					
48	034-781		C14	CAPACITOR, Mica, 91PF, 500V, ±2%		1					

X1364666C

TAPPED DELAY #1 PRINTED WIRING ASSEMBLY (MODULE 238)					CATALOG NO. 1364666		SHEET 2 OF 3				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
50	030-968		C2	CAPACITOR, Ceramic, .033μF, 100V, ±10%		1					
54	037-164		C17, 41, 65	CAPACITOR, Tantalum, 1μF, 35V, ±10%		3					
55	037-472		C4, 16, 21, 40, 42, 64	CAPACITOR, Tantalum, 4.7μF, 10V, ±10%		6			*		
56	037-726		C1, 3, 13, 18, 19, 69, 22, 43, 46, 66	CAPACITOR, Tantalum, 3.3μF, 15V, ±10%		10					
57	037-728		C20, 45, 68	CAPACITOR, Tantalum, 6.8μF, 6V, ±10%		3					
60	038-274		C38, 62	CAPACITOR, Variable, 2-8PF		2					
61	038-275		C15	CAPACITOR, Variable, 5.5-18PF		1					
62	038-278		C12	CAPACITOR, Variable, 0.5-3PF		1					
63	038-277		C44, 67	CAPACITOR, Variable, 9-35PF		2					
64	041-273		R39	RESISTOR, Fixed, 270 ohm, 1/2W, ±5%		1					
65	041-419		R21	RESISTOR, Fixed, 100 ohm, 1/4W, ±5%		1					
66	041-425		R73, 10, 13, 26, 31, 34, 38, 81, 47, 50, 53, 61, 67, 70	RESISTOR, Fixed, 47 ohm, 1/4W, ±5%		14					
67	041-462		R16, 17	RESISTOR, Fixed, 1300 ohm, 1/2W, ±5%		2					
68	041-465		R1	RESISTOR, Fixed, 680 ohm, 1W, ±5%		1					
69	041-497		R5	RESISTOR, Fixed, 560 ohm, 1/4W, ±5%		1					
70	041-500		R4, 14	RESISTOR, Fixed, 510 ohm, 1W, ±5%		2					
71	041-531		R20, 27, 33, 44, 49, 64, 69	RESISTOR, Fixed, 750 ohm, 1/4W, ±5%		7					
72	041-554		R9	RESISTOR, Fixed, 51 ohm, 1/4W, ±5%		1					
73	041-560		R6, 22, 45, 65	RESISTOR, Fixed, 2000 ohm, 1/4W, ±5%		4					
75	041-733		R3	RESISTOR, Fixed, 56 ohm, 1/4W, ±5%		1					
78	049-597		R29, 59, 79	RESISTOR, Fixed, 160 ohm, 1W, ±5%		3					
80	051-727		L9	INDUCTOR, Variable, .33μH		1					
81	051-281		L1	INDUCTOR, Fixed, .10μH		1					
82	540-085		L11, 30	INDUCTOR, Variable, .47μH		2					
83	051-717		L28, 47	INDUCTOR, Variable, .47μH		2					
84	051-718		L8	INDUCTOR, Variable, .68μH		1					
85	051-725		L27, 46	INDUCTOR, Variable, .22μH		2					
86	056-158		C7	CAPACITOR, Mica, 18PF, 500V, ±5%		1					
87	056-437		C47-61, 23-37	CAPACITOR, Mica, 40PF, 500V, ±.25PF		30					
88	057-242		R25, 58, 78	RESISTOR, Metal Film, 255 ohm, 1/2W, ±.1%		3					
89	057-195		R32, 35, 51, 52, 71, 72	RESISTOR, Metal Film, 100 ohm, 1/8W, ±1%		6					
90	057-456		R40, 54, 74	RESISTOR, Metal Film, 732 ohm, 1/2W, ±1%		3					
91	057-605		R7, 8	RESISTOR, Metal Film, 90.9 ohm, 1/8W, ±1%		2					
92	057-623		R30, 60, 80	RESISTOR, Metal Film, 1070 ohm, 1/2W, ±1%		3					
93	057-723		R11, 12	RESISTOR, Metal Film, 115 ohm, 1/8W, ±1%		2					
94	057-905		R37	RESISTOR, Metal Film, 887 ohm, 1/8W, ±1%		1					
95	058-517		R18	RESISTOR, Variable, 10 ohm, 1/2W, ±10%		1					

X1364666C

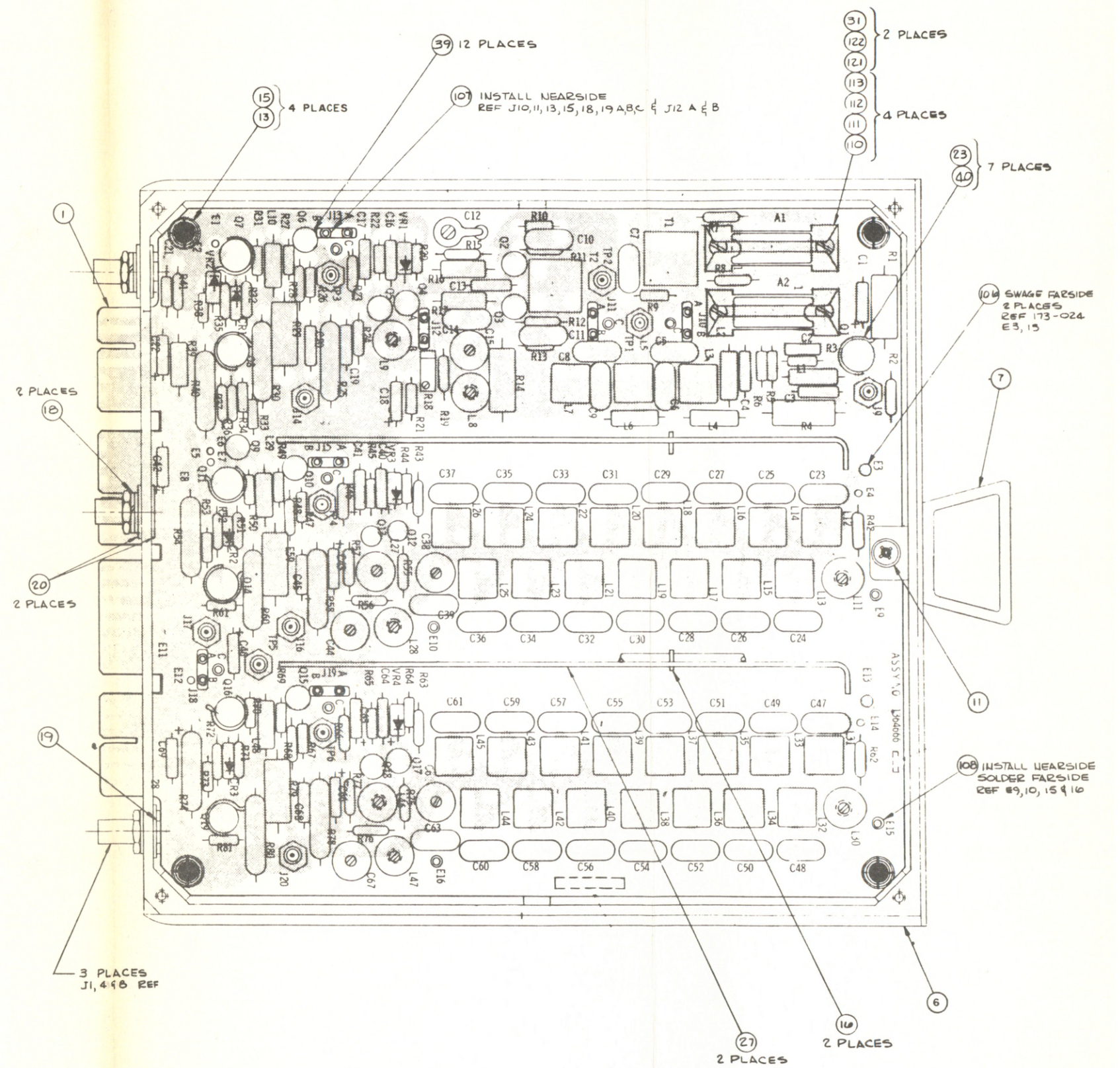
TAPPED DELAY #1 PRINTED WIRING ASSEMBLY (MODULE 238)						CATALOG NO. 1364666		SHEET 3 OF 3							
								NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-01									
96	057-609		R42,62	RESISTOR, Metal Film, 127 ohm, 1/8W, 1%		2									
97	062-619		R43,63	RESISTOR, Metal Film, 191 ohm, 1/8W, 1%		2									
98	062-059		R24	RESISTOR, Metal Film, 357 ohm, 1/8W, ±1%		1									
99	062-399		R19	RESISTOR, Metal Film, 118 ohm, 1/8W, ±1%		1									
100	062-425		R41	RESISTOR, Metal Film, 49.9 ohm, 1/8W, ±1%		1									
101	062-472		R66,2,23,46	RESISTOR, Metal Film, 51.1 ohm, 1/8W, ±1%		4									
102	062-478		R36	RESISTOR, Metal Film, 140 ohm, 1/8W, ±1%		1									
103	062-535		R15	RESISTOR, Metal Film, 261 ohm, 1/8W, ±1%		1									
104	062-537		R28,48,68	RESISTOR, Metal Film, 46.4 ohm, 1/8W, ±1%		3									
105	062-620		R56,76	RESISTOR, Metal Film, 453 ohm, 1/8W, ±1%		2									
106	173-024		E3,13	TERMINAL		2									
107	143-981		J10,11,13,15,18,19-A,B,C J12-A,B	CONNECTOR		20									
108	139-051		E9,10,15,16	CONNECTOR		4									
109	166-219		TP1-6,J9,14,16,20,17	CONNECTOR		11									
110	471-574			SCREW, Binder Head, 2-56 x 3/16		4									
111	492-007			NUT, Hex, 2-56, small pattern		4									
112	501-155			WASHER, Flat, #2		4									
113	502-023			WASHER, Internal Lock, #2		4									
114	540-005		L10,29,48	INDUCTOR, Fixed, 47μH		3									
115	540-010		L4,6	INDUCTOR, Fixed, 4.7μH		2									
116	540-011		L2	INDUCTOR, Fixed, 22μH		1									
117	560-295	BT 8	T1,2	TRANSFORMER		2									
118	580-168	MD2369	Q8,14,19	TRANSISTOR, Dual		3									
119	580-169	MD918	Q1	TRANSISTOR, Dual		1									
120	580-253	MD5000A	Q7,11,16	TRANSISTOR		3									
121	586-466		A1,2	CLIP, Retainer, 1C		2									
122	586-465		A1,2	BASE, Conduction		2									
123	586-484	MC1227L	A1,2	INTEGRATED CIRCUIT		2									
124	062-522		R55,75	RESISTOR, Metal Film, 392 ohm, 1/8W, ±1%		2									
125	602-012		P10-13,15,18,19	PLUG, Jumper		7									
126	616-567			WIRE, Coaxial, green, 50 ohm	A/R										
127	042-758		R57,77	RESISTOR, Metal Film, 10 ohm, 1/8W, ±1%		2									

X1364666C

10-645/646



AMPEX



Tapped Delay No. 1 Printed Wiring Assembly  
(Module 238) Dwg. No. 1364666

TAPPED DELAY #2 PRINTED WIRING ASSEMBLY (MODULE 239)						CATALOG NO. X1364669		SHEET 1 OF 3					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364671			SCHEMATIC		REF							
10	018-285			ADHESIVE, Thread Locking		A/R							
11	473-325			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .312		1							
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
13	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4							
15	501-008			WASHER, Plain, #4		4							
16	302-395			STRAP, Cable		2							
19	501-712			WASHER, Flat, brass, .032 thick		1							
20	501-715			WASHER, Shoulder, nylon		6							
21	501-740			WASHER, Aluminum, .016 thick		3							
22	1366814-01		J4	CABLE ASSEMBLY		1							
23	1366814-11		J3,8	CABLE ASSEMBLY		2							
24	1366814-53		J1	CABLE ASSEMBLY		1							
25	1366817-01		Q2,5,7,10,12,15	SPRING, Ground Clip		6							
26	1366880-01		L2,4,6,8,10,12,14,16,21,23,25,27,29,31,33,35,40,42,44,46,48,50,52,54	INDUCTOR, Fixed, 1.5μH		24							
27	1366880-02		L3,5,7,9,11,15,22,24,26,28,30,32,34,41,43,45,47,49,51,53,13	INDUCTOR, Fixed, 1.5UH		21							
28	1366881-07			CABLE ASSEMBLY		2							
29	1366882-03			SHIELD, Fence		2							
33	013-224		VR1-4	DIODE, Zener, 6.8V		4							
34	013-677		CR1-3	DIODE		3							
38	014-576	2N2784	Q3,4,8,9,13,14	TRANSISTOR		6							
39	014-581		Q1,6,11	TRANSISTOR		3							
40	014-715		Q1,3,4,6,8,9,11,13,14	SPACER, Transistor		9							
41	014-783		Q2,5,7,10,12,15	SPACER, Transistor		6							
44	056-437		C1-15,25-39,48-62	CAPACITOR, Mica, 40.0PF, 500V, ±.25PF		45							
45	056-022		C17,41,64	CAPACITOR, Mica, 6.8PF, 500V, ±.5PF		3							
46	037-164		C19,43,66	CAPACITOR, Tantalum, 1μF, 35V, ±10%		3							
47	037-472		C18,23,42,65	CAPACITOR, Tantalum,4.7μF,10V, ±10%		4							

X1364669C



TAPPED DELAY #2 PRINTED WIRING ASSEMBLY (MODULE 239)						CATALOG NO. X1364669		SHEET 2 OF 3						
								NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
48	037-726		C20,24,44,47,67,70	CAPACITOR, Tantalum, 3.3μF, 15V, ±10%		6								
49	037-728		C22,46,69	CAPACITOR, Tantalum, 6.8μF, 6V, ±10%		3								
53	038-274		C16,40,63	CAPACITOR, Variable, 2-8PF		3								
54	038-277		C21,45,68	CAPACITOR, Variable, 9-35PF		3								
58	041-273		R22	RESISTOR, Comp., 270 ohm, 1/2W, 5%		1								
59	041-417		R57	RESISTOR, Comp., 390 ohm, 1/4W, 5%		1								
60	041-425		R6,9,13,20,28,31,34,42,48,51,54,64	RESISTOR, Comp., 47 ohm, 1/4W, 5%		12								
61	041-531		R3,8,25,30,45,50	RESISTOR, Comp., 750 ohm, 1/4W, 5%		6								
62	041-560		R4,26,46	RESISTOR, Comp., 2K ohm, 1/4W, 5%		3								
63	041-571		R56	RESISTOR, Comp., 3.6K ohm, 1/4W, 5%		1								
65	041-340		R18,40,62	RESISTOR, Comp., 160 ohm, 1W, 5%		3								
68	540-085		L1,20,39	INDUCTOR, Variable, .47μH		3								
69	051-725		L18,37,56	INDUCTOR, Variable, .22μH		3								
70	051-717		L19,38,57	INDUCTOR, Variable, .47μH		3								
73	057-195		R11,12,32,33,52,53	RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		6								
74	057-242		R17,39,61	RESISTOR, Metal Film, 255 ohm, 1/2W, 1%		3								
75	057-456		R21,35,55	RESISTOR, Metal Film, 732 ohm, 1/2W, 1%		3								
76	057-623		R19,41,63	RESISTOR, Metal Film, 1070 ohm, 1/2W, 1%		3								
83	062-425		R10	RESISTOR, Metal Film, 49.9 ohm, 1/8W, 1%		1								
84	062-472		R5, 27,47	RESISTOR, Metal Film, 51.1 ohm, 1/8W, 1%		3								
85	062-522		R14,36,58	RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		3								
86	062-537		R7,29,49	RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		3								
87	057-609		R1,23,43	RESISTOR, Metal Film, 127 ohm, 1/8W, 1%		3								
88	062-619		R2,24,44	RESISTOR, Metal Film, 191 ohm, 1/8W, 1%		3								
89	062-620		R15,37,59	RESISTOR, Metal Film, 453 ohm, 1/8W, 1%		3								
90	139-051		E3,4,11,12,17,18	PIN SOCKET, Printed Circuit Board		6								
91	143-981		J10,12,14,17,18,19-ABC	PIN SOCKET, Printed Circuit Board		18								

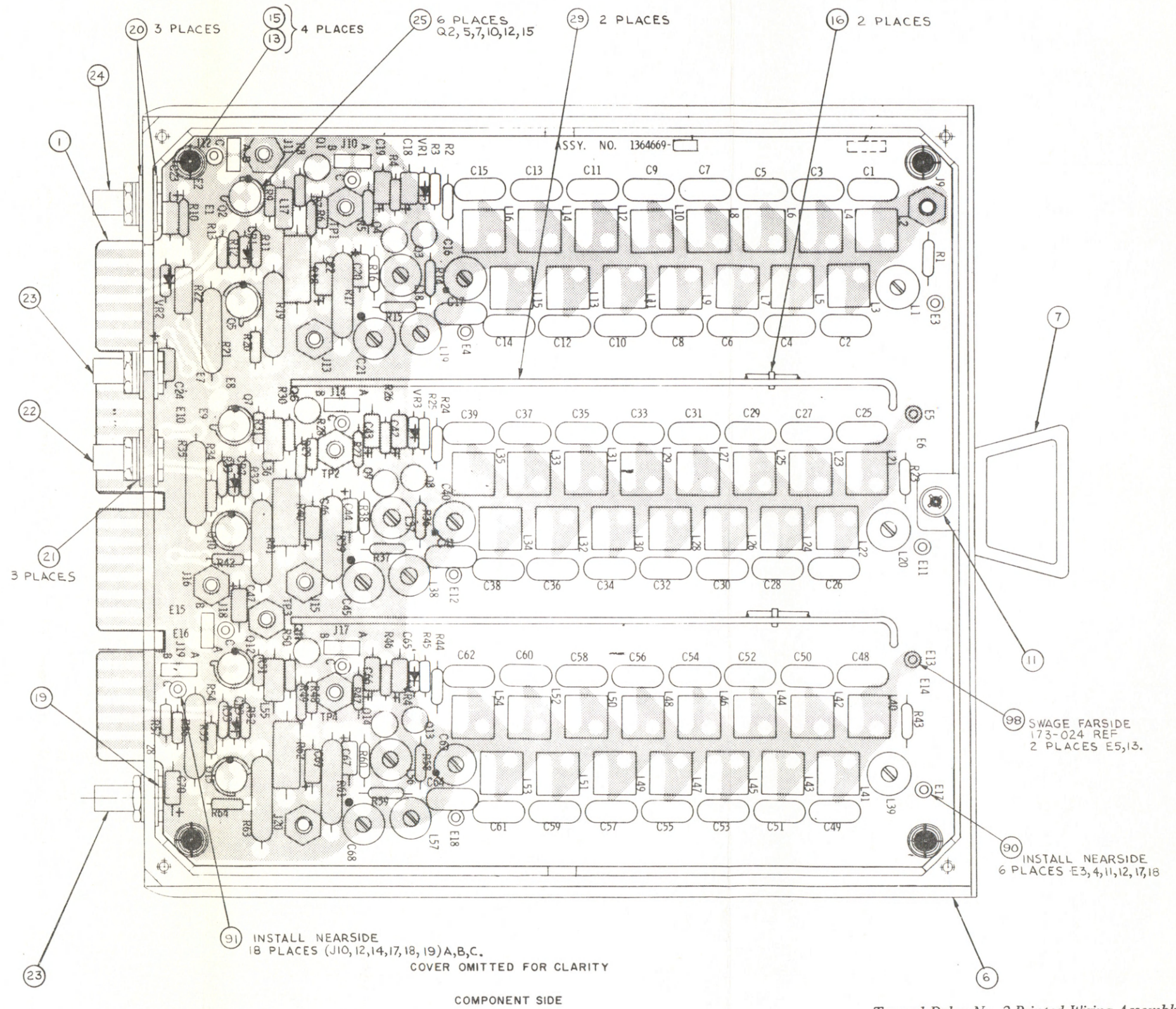
X1364669C



TAPPED DELAY #2 PRINTED WIRING ASSEMBLY (MODULE 239)					CATALOG NO. X1364669		SHEET 3 OF 3					
							NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
92	166-219		J9,11,13,15,16,20,TP1-4	CONNECTOR, Printed Circuit Board, straight, 50 ohm		10						
93	580-168	MD2369	Q5,10,15	TRANSISTOR		3						
94	580-253	MD5000A	Q2,7,12	TRANSISTOR		3						
95	602-012		J10,11,14,17,18,19	PLUG, Jumper		6						
96	616-567			WIRE, Coaxial, green, 50 ohm		A/R						
97	540-005		L17,36,55	INDUCTOR, Fixed, 47μH, 5%		3						
98	173-024		E5,13	TERMINAL		2						
99	042-758		R16,38,60	RESISTOR, Metal Film, 10 ohm, 1/8W, ±1%		3						

X1364669C

AMPEX



Tapped Delay No. 2 Printed Wiring Assembly  
(Module 239)  
Drawing No. 1364669C

TAPPED DELAY SECTION #3 PRINTED WIRING ASSEMBLY						CATALOG NO. 1365878		SHEET 1 OF 3			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1365880	TO-99		SCHEMATIC		REF					
4	1368188-86			LABEL		1					
5	1368260-01			OVERLAY		1					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
9	1365671-01			COVER, Module		-					
10	018-285			ADHESIVE, Thread Locking		A/R					
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
16	302-395			STRAP, Cable		1					
19	501-712			WASHER, Flat, brass, .032 thick		1					
20	501-715			WASHER, Shoulder, nylon		4					
21	501-740			WASHER, Aluminum, .284 x .016		2					
22	1366814-53			CABLE, Assembly		1					
23	1366817-01			CLIP, Transistor Grounding		4					
24	1366880-01			L2, 4, 6, 8, 10, 12, 14, 16, 21, 23, 25, 27, 29, 31, 33, 35	INDUCTOR, Fixed, 1.50μH	16					
25	1366880-02			L3, 5, 7, 9, 11, 13, 15, 22, 24, 26, 28, 30, 32, 34	INDUCTOR, Fixed, 1.50μH	14					
26	1366881-07				CABLE ASSEMBLY	1					
27	1366882-03				SHIELD, Fence	2					
28	1366814-11				CABLE ASSEMBLY	2					
30	013-224			VR1-3	DIODE, Zener, 6.8V	3					
31	013-677			CR1, 2	DIODE	2					
34	014-576		2N2784	Q3, 4, 8, 9, 12, 13	TRANSISTOR	6					
35	014-581		2N2369A	Q1, 6, 11	TRANSISTOR	3					
36	014-715		TO-18	Q1, 3, 4, 6, 8, 9, 11-13	SPACER, Transistor	9					
37	014-783		TO-99	Q2, 5, 7, 10	SPACER, Transistor	4					
40	056-022			C17, 41	CAPACITOR, Mica, 6.8PF, 500V, ±.5PF	2					
41	034-207			C55	CAPACITOR, Mica, 24PF, 500V, ±5%	1					
44	037-164			C19, 43, 50, 51, 53	CAPACITOR, Tantalum, 1μF, 35V, ±10%	5					
45	037-472			C18, 23, 42	CAPACITOR, Tantalum, 4.7μF, 10V, ±10%	3					
46	037-726			C20, 24, 44, 47, 48, 52, 54, 56	CAPACITOR, Tantalum, 3.3μF, 15V, ±10%	8					
47	037-728			C22, 46	CAPACITOR, Tantalum, 6.8μF, 6V, ±10%	2					
49	038-274			C16, 40	CAPACITOR, Variable, 2-8PF	2					
50	038-277			C21, 45	CAPACITOR, Variable, 9 -35PF	2					
52	041-273			R17	RESISTOR, Fixed, 270 ohm, 1/2W, 5%	1					
53	041-417			R51	RESISTOR, Fixed, 390 ohm, 1/4W, 5%	1					
54	041-329			R52	RESISTOR, Fixed, 330 ohm, 1/2W, 5%	1					

X1365878C



TAPPED DELAY SECTION #3 PRINTED WIRING ASSEMBLY					CATALOG NO. 1365878	SHEET 2 OF 3							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
55	041-331		R46	RESISTOR, Fixed, 3300 ohm, 1/2W, 5%		1							
56	041-425		R6, 9, 13, 21, 28, 31, 34, 42	RESISTOR, Fixed, 47 ohm, 1/4W, 5%		8							
57	041-531		R3, 8, 25, 30	RESISTOR, Fixed, 750 ohm, 1/4W, 5%		4							
58	041-554		R43, 49	RESISTOR, Fixed, 51 ohm, 1/4W, 5%		2							
59	041-560		R4, 26	RESISTOR, Fixed, 2K ohm, 1/4W, 5%		2							
60	041-571		R50	RESISTOR, Fixed, 3.6K ohm, 1/4W, 5%		1							
62	041-834		R45	RESISTOR, Fixed, 1100 ohm, 1W, 5%		1							
63	042-760		R54	RESISTOR, Metal Film, 845 ohm, 1/8W, 1%		1							
64	048-671		R53	RESISTOR, Metal Film, 422 ohm, 1/4W, 1%		1							
65	041-340		R16, 39	RESISTOR, Fixed, 160 ohm, 1W, 5%		2							
67	051-308		L1, 20	INDUCTOR, Variable, .47μH		2							
68	051-717		L19, 38	INDUCTOR, Variable, .47μH		2							
69	051-725		L18, 37	INDUCTOR, Variable, .22μH		2							
71	034-945		C49	CAPACITOR, Mica, 12PF, 500V, ±5%		1							
72	056-437		C1-15, 25-29	CAPACITOR, Mica, 40PF, 500V, ±.25PF		30							
73	057-195		R11, 12, 32, 33	RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4							
74	057-240		R47	RESISTOR, Metal Film, 2320 ohm, 1/2W, 1%		1							
75	057-242		R19, 38	RESISTOR, Metal Film, 255 ohm, 1/2W, 1%		2							
76	057-456		R22, 35	RESISTOR, Metal Film, 732 ohm, 1/2W, 1%		2							
77	057-623		R20, 40	RESISTOR, Metal Film, 1070 ohm, 1/2W, 1%		2							
78	062-425		R10	RESISTOR, Metal Film, 49.9 ohm, 1/8W, 1%		1							
79	062-472		R5, 27	RESISTOR, Metal Film, 51.1 ohm, 1/8W, 1%		2							
80	062-522		R14, 36	RESISTOR, Metal Film, 392 ohm, 1/8W, 1%		2							
81	062-683		R48	RESISTOR, Metal Film, 40.2 ohm, 1/8W, 1%		1							
82	062-537		R7, 29, 44	RESISTOR, Metal Film, 46.4 ohm, 1/8W, 1%		3							
83	057-609		R1, 23	RESISTOR, Metal Film, 127 ohm, 1/8W, 1%		2							
84	062-619		R2, 24	RESISTOR, Metal Film, 191 ohm, 1/8W, 1%		2							
85	139-051		E3, 4, 11, 12	PIN SOCKET		4							
86	143-981		J10, 12, 14, 15, 16-A, B, C	PIN SOCKET, Printed Circuit Board, straight		15							
87	166-219		J9, 11, 13, 17 TP1-4	CONNECTOR, Printed Circuit Board, straight, 50 ohm		8							
89	540-005		L17, 36	INDUCTOR, Fixed, 47μH		2							
90	540-011		L39, 41	INDUCTOR, Fixed, 22μH		2							
91	541-076		L40	INDUCTOR, Variable, 1.5μH		1							
92	580-168	MD2369	Q5, 10	TRANSISTOR		2							
93	580-253	MD5000A	Q2, 7	TRANSISTOR		2							

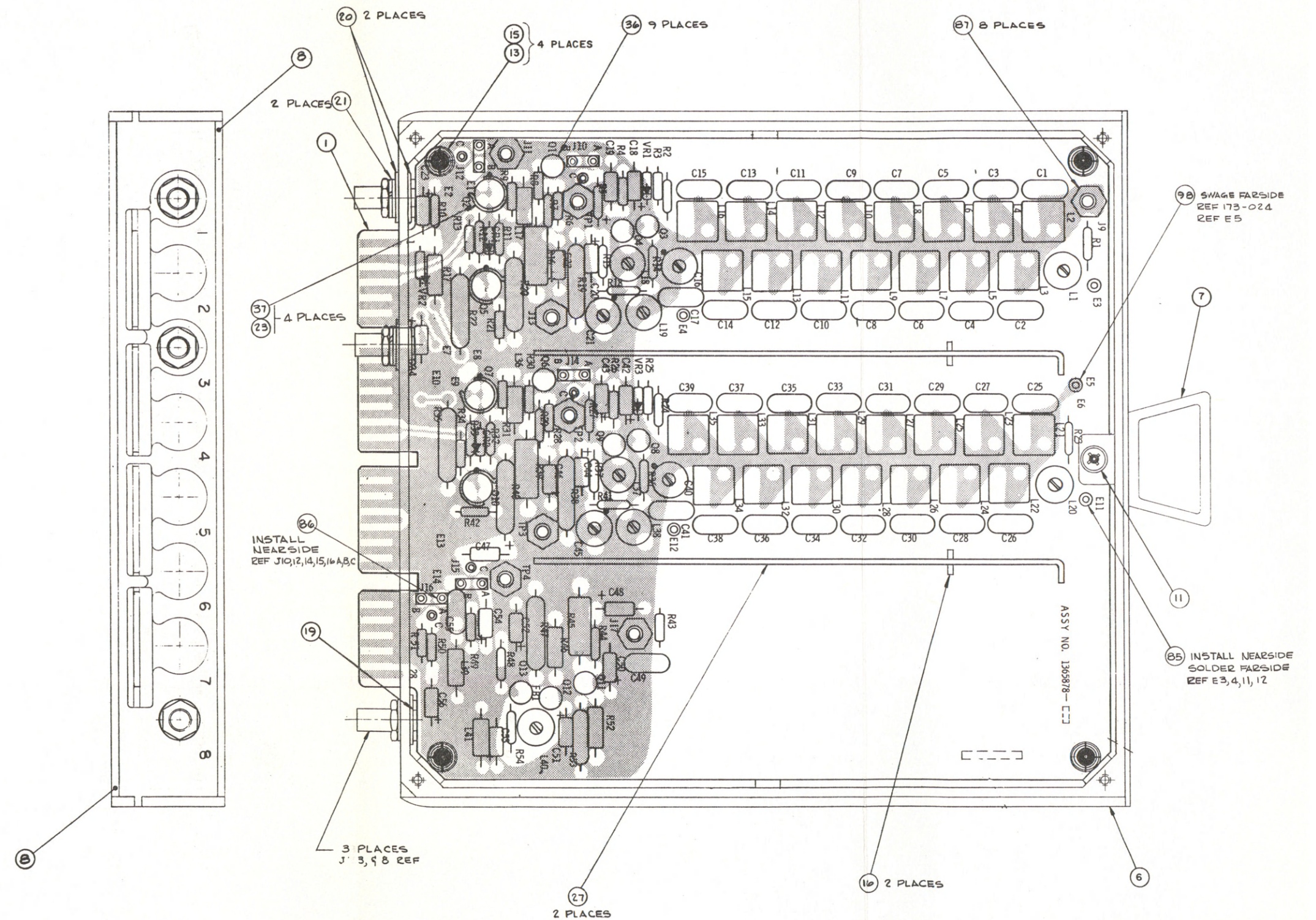
X1365878C

TAPPED DELAY SECTION #3 PRINTED WIRING ASSEMBLY						CATALOG NO. 1365878		SHEET 3 OF 3				
								NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
94	602-012		J10,12,14-16	PLUG, Jumper		5						
96	616-567			WIRE, Coaxial, green, 50 ohm		A/R						
98	173-024		E5	TERMINAL		1						
100	062-620		R18,41	RESISTOR, Metal Film, 453 ohm, 1/8W, ±1%		2						
101	042-758		R15,37	RESISTOR, Metal Film, 10 ohm, 1/8W, ±1%		2						
105	932-035		FB1	FERRITE BEAD		1						

X1365878C

10-653/654

AMPEX



Tapped Delay Section No. 3 Printed Wiring Assembly  
Dwg. No. 1365878



15 MHz DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 241)						CATALOG NO. X1364672		SHEET 1 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
2	1364674			SCHEMATIC		REF							
7	1368435-01			SHIELD FENCE		1							
8	103307-02		C8	STANDOFF		4							
9	1368188-87			LABEL MODULES		1							
10	013-224		VR3	DIODE, Zener, 6.8V		1							
11	013-332		VR2	DIODE, Zener, 4.7V		1							
12	013-723	FD777	CR1-4	DIODE		4							
13	013-829		VR1,4,5	DIODE, Zener, 3.9V		3							
14	1368283-01			OVERLAY		1							
15	014-070		Q7,8	TRANSISTOR, Heatsink		2							
16	014-364		Q1	TRANSISTOR		1							
17	014-505		Q3	TRANSISTOR		1							
19	586-201			INTEGRATED CIRCUIT, 12 Pin Socket		2							
20	014-738		Q4-6,10-12,18-22	TRANSISTOR		11							
21	014-852	MD2369A	Q2	TRANSISTOR		1							
22	014-854	MD2219	Q7	TRANSISTOR		1							
23	580-292		Q9,13-15	TRANSISTOR		4							
24	932-035		Ref: Base of Q1,2,6-10, FB21 & collector of Q3	FERRITE BEADS		14							
25	014-783			TRANSISTOR MOUNTS, Dual		3							
26	932-034		FB3,4,16,17	FERRITE BEADS, .250 long		4							
27	018-285			ADHESIVE, Thread Locking		A/R							
28	014-853	MD2905	Q8	TRANSISTOR		1							
29	932-037		Ref: Bases of Q14,15	FERRITE BEADS, .063 long		4							
30	032-226		C12,17	CAPACITOR, Porcelain, 13PF, 500V, ±5%		2							
31	034-184		C59	CAPACITOR, 68PF, 500V, ±5%		1							
33	056-436		C13	CAPACITOR, Mica, 1686PF, 500V, ±1%		1							
34	034-942		C57	CAPACITOR, Mica, 36PF, 500V, ±5%		1							
35	034-297		C28	CAPACITOR, Mica, 180PF, 500V, ±1%		1							
36	056-435		C5	CAPACITOR, Mica, 585PF, 300V, ±1%		1							
38	034-376		C3	CAPACITOR, Mica, 33PF, 500V, 0.5%		1							
39	034-917		C4	CAPACITOR, Mica, 47PF, 500V, ±2PF		1							
40	034-543		C20,21	CAPACITOR, Mica, 240PF, 500V, ±1%		2							

X1364672E



15MHz DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 241)						CATALOG NO. X1364672		SHEET 2 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
41	034-934		C60	CAPACITOR, Mica, 360PF, 500V, +5%		1							
42	037-991		C14,15,45,54	CAPACITOR, Tantalum, 22μF, 15V, +10%		4							
43	037-507		C7,18,22,55	CAPACITOR, Tantalum, 150μF,15V,+10%		4							
44	037-740		C1,6,11,16	CAPACITOR, Tantalum, 33μF, 10V,+10%		4							
45	037-995		C10	CAPACITOR, Tantalum, 400μF,15V,+75%		1							
47	038-282		C8	CAPACITOR, Variable, 1.0 - 14PF		1							
48	037-749		C19	CAPACITOR, Tantalum, 68μF, 15V,+10%		1							
49	041-007		R1,61,63,64, 68,97	RESISTOR, Comp., 750 ohm, 1/2W, 5%		6							
50	041-256		R66,67	RESISTOR, Comp., 560 ohm, 1/2W, 5%		2							
51	041-316		R19	RESISTOR, Comp., 2.4K ohm,1/2W, 5%		1							
52	041-336		R69,70	RESISTOR, Comp., 470 ohm, 1/2W, 5%		2							
53	041-344		R110	RESISTOR, Comp., 390 ohm, 1/2W, 5%		1							
54	041-404		R56,57	RESISTOR, Comp., 510 ohm, 1/2W, 5%		2							
55	041-407		R93,96	RESISTOR, Comp., 3.3K ohm, 1/4W, 5%		2							
56	041-408		R113	RESISTOR, Comp., 10K ohm, 1/4W, 5%		1							
57	041-414		R82	RESISTOR, Comp., 2.2K ohm, 1/4W, 5%		1							
58	041-419		R111,22,48,54, 88,89	RESISTOR, Comp., 100 ohm, 1/4W, 5%		6							
59	041-425		R49,51,71,72, 75,78,103	RESISTOR, Comp., 47 ohm, 1/4W, 5%		7							
60	041-437		R7,31,41	RESISTOR, Comp., 1.6K ohm, 1/4W, 5%		3							
61	041-440		R105,106	RESISTOR, Comp., 1.2K ohm, 1/4W, 5%		2							
62	041-462		R4,5	RESISTOR, Comp., 1.3K ohm, 1/2W, 5%		2							
63	041-504		R95,102	RESISTOR, Comp., 510 ohm, 1/4W, 5%		2							
64	041-497		R112	RESISTOR, Comp., 560 ohm, 1/4W, 5%		1							
65	041-522		R10	RESISTOR, Comp., 910 ohm, 1/2W, 5%		1							
66	041-531		R15,81,87	RESISTOR, Comp., 750 ohm, 1/4W, 5%		3							
67	041-539		R52,53	RESISTOR, Comp., 130 ohm, 1/4W,5%		2							
68	041-550		R13,14,86,94	RESISTOR, Comp., 3K ohm, 1/4W, 5%		4							
69	041-554		R42,47,60,73, 74,76,84,92, 100,109	RESISTOR, Comp., 51 ohm, 1/4W, 5%		10							
70	041-560		R101,107	RESISTOR, Comp., 2K ohm, 1/4W, 5%		2							
71	041-593		R80	RESISTOR, Comp., 110 ohm, 1/2W, 5%		1							
72	041-647		R50	RESISTOR, Comp., 75 ohm, 1/4W, 5%		1							
73	041-648		R83	RESISTOR, Comp., 36 ohm, 1/4W, 5%		1							
74	041-508		R114,115	RESISTOR, Comp., 20K ohm, 1/4W, 5%		2							
75	041-740		R90,91,98,99	RESISTOR, Comp., 200 ohm, 1/4W, 5%		4							

X1364672E

15MHz DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 241)				CATALOG NO. X1364672		SHEET 3 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
76	041-743		R85	RESISTOR, Comp., 430 ohm, 1/4W, 5%		1					
77	041-750		R16	RESISTOR, Comp., 24K ohm, 1/4W, 5%		1					
79	034-215		C9, 58	CAPACITOR, Mica, 10PF, 500V, 5%		2					
83	048-131		R27, 28	RESISTOR, Metal Film, 1210 ohm, 1/2W, 1%		2					
84	048-703		R26	RESISTOR, Metal Film, 1.3K ohm, 1/2W, 1%		1					
85	048-704		R59	RESISTOR, Metal Film, 301 ohm, 1/2W, 1%		1					
87	049-574		R20, 21, 24, 29	RESISTOR, Hot Molded, 1 ohm, 1/2W, ±5%		4					
88	051-338		L19	INDUCTOR, Fixed, 22μH, 5%		1					
89	051-329		L2	INDUCTOR, Fixed, 1.0μH, 5%		1					
90	1367428-01		L7-18, 20	INDUCTOR, Fixed		13					
93	056-239		C27, 34, 38, 40, 53	CAPACITOR, Mica, 10PF, 500V, ±.5%		5					
94	056-392		C2, 23	CAPACITOR, Mica, 95PF, 500V, ±1%		2					
96	061-110		R32	RESISTOR, Metal Film, 340 ohm, 1/8W, 1%		1					
97	057-195		R9, 18	RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		2					
98	057-224		R12, 34, 23	RESISTOR, Metal Film, 301 ohm, 1/8W, 1%		3					
99	057-498		R30, 43	RESISTOR, Metal Film, 866 ohm, 1/2W, 1%		2					
100	057-512		R8	RESISTOR, Metal Film, 536 ohm, 1/8W, 1%		1					
101	057-513		R2	RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		1					
102	057-714		R46	RESISTOR, Metal Film, 178 ohm, 1/2W, 1%		1					
103	062-424		R44	RESISTOR, Metal Film, 47.5 ohm, 1/8W, 1%		1					
104	062-044		R40	RESISTOR, Metal Film, 402 ohm, 1/8W, 1%		1					
105	062-151		R39	RESISTOR, Metal Film, 75 ohm, 1/8W, 1%		1					
107	062-417		R25	RESISTOR, Metal Film, 309 ohm, 1/2W, 1%		1					
109	062-425		R62, 77	RESISTOR, Metal Film, 49.9 ohm, 1/8W, 1%		2					
110	062-531		R65	RESISTOR, Metal Film, 44.2 ohm, 1/8W, 1%		1					
111	062-533		R17, 45	RESISTOR, Metal Film, 150 ohm, 1/8W, 1%		2					
112	062-577		R6	RESISTOR, Metal Film, 196 ohm, 1/8W, 1%		1					

X1364672E

15 MHz DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 241)						CATALOG NO. X1364672		SHEET 4 OF 5						
								NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-03								
113	062-578		R11	RESISTOR, Metal Film, 432 ohm, 1/8W, 1%		1								
114	062-593		R38	RESISTOR, Metal Film, 750 ohm, 1/8W, 1%		1								
115	062-594		R37	RESISTOR, Metal Film, 82.5 ohm, 1/8W, 1%		1								
116	062-536		R58,79,108	RESISTOR, Metal Film, 41.2 ohm, 1/8W, 1%		3								
118	064-004		C24-26,29-33,35-37,39,41-44,46-52,56	CAPACITOR, Ceramic, 0.1μF, 100V, ±10%		24								
119	058-564		R55	RESISTOR, Variable, 500 ohm, 1/2W, ±10%		1								
120	058-565		R104	RESISTOR, Variable, 10K ohm, 1/2W, ±10%		1								
122	1365687-28		L4,6	INDUCTOR, Variable, 4.4μH		2								
123	1365687-29		L5	INDUCTOR, Variable, 5.46μH		1								
124	1367397-01		L1	INDUCTOR, Variable, 13.6μH		1								
126	051-838		L3	INDUCTOR, Variable, .47μH		1								
129	062-632		R36	RESISTOR, Metal Film, 10 ohm, 1/20W, ±.25%		1								
130	062-629		R33,35	RESISTOR, Metal Film, 178 ohm, 1/8W, ±0.25%		2								
134	058-723		R3	RESISTOR, Variable, 500 ohm,1W,±10%		1								
136	1368241-02		DL1	DELAY LINE ASSEMBLY		1								
138	166-219		TP1-5, J11	CONNECTOR, Coaxial		6								
139	1366814-01			CABLE ASSEMBLY		1								
140	280-130			TRANSISTOR PAD		12								
141	280-998		Q1	TRANSISTOR PAD		1								
142	473-325			SCREW, Cross-Recessed, pan head, 4-40 x .312		1								
143	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8								
144	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4								
145	501-008			WASHER, Plain, #4		5								
146	501-712			WASHER, Flat, brass, .032 thick		1								
147	580-162	MM1605	Q23	TRANSISTOR		1								
148	580-251	2N3959	Q16,17	TRANSISTOR		2								
150	586-446	RCA CA3049	A1,2	INTEGRATED CIRCUIT		2								
152	143-981		J9A,B -J10A,B -J11A,B -J12A,B, C -J13A,B-J17A,B,J18A,B	PIN SOCKET, Printed Circuit		15								

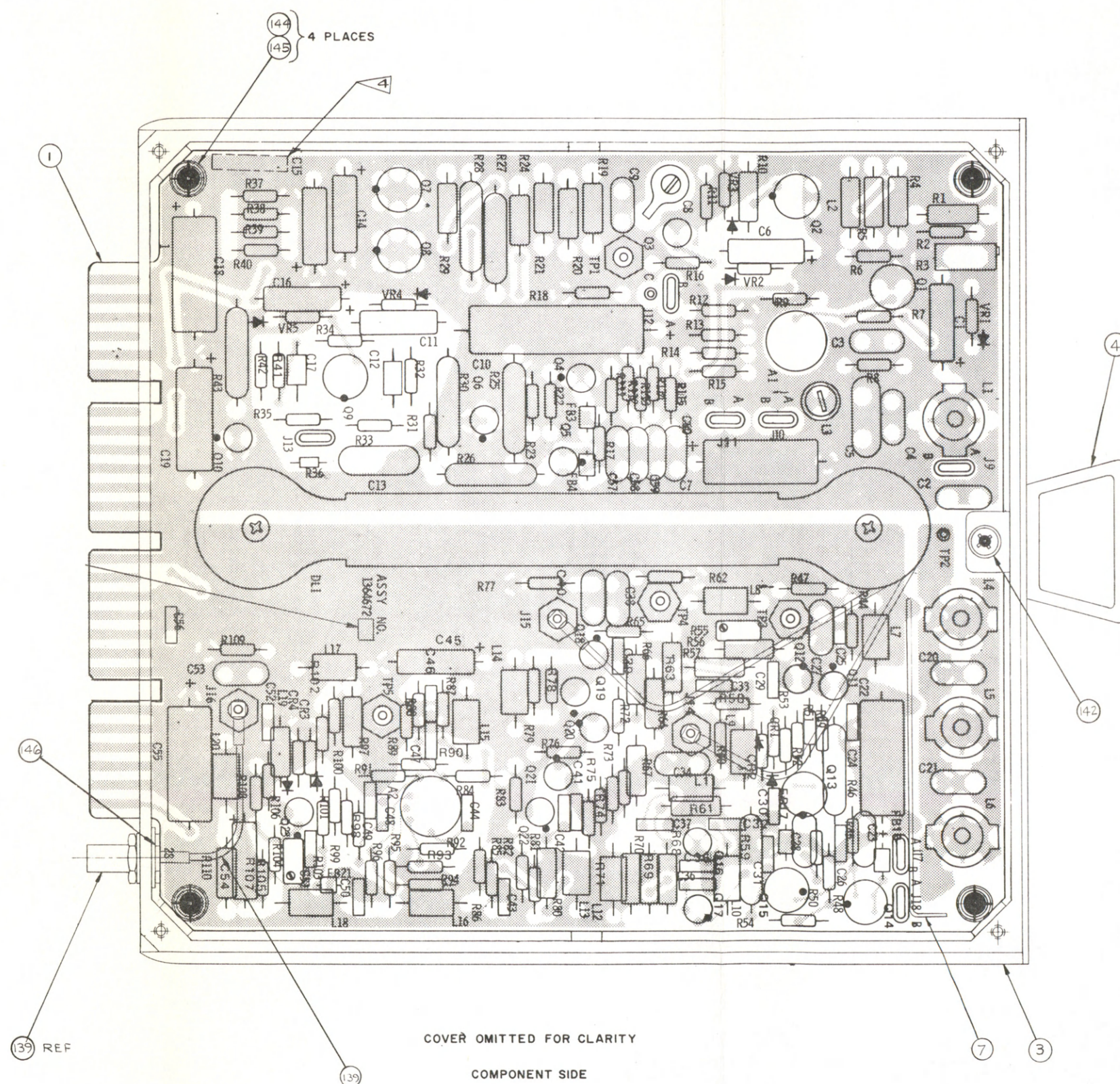
X1364672E

15 MHz DEMODULATOR PRINTED WIRING ASSEMBLY (MODULE 241)						CATALOG NO. X1364672		SHEET 5 OF 5					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
153	602-012			PLUG, Jumper		7							
154	615-002			WIRE, Bare, 22 AWG		A/R							

X1364672E



# AMPEX



15-MHz Demodulator Printed Wiring Assembly  
(Module 241)  
Drawing No. 1364672E



VERNIER DELAY PRINTED WIRING ASSEMBLY (MODULE 242)				CATALOG NO. X1364675		SHEET 1 OF 7					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-04					
3	1364677			SCHEMATIC		REF					
10	018-285			ADHESIVE, Thread Locking		A/R					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		2					
15	501-008			WASHER, Plain, #4		2					
19	501-712			WASHER, Flat, brass, .032 thick		1					
23	103307-02		R31,39,40,48, 49,50,61,62,64 C19,20,29,30,41	STANDOFF, .125 Long		22					
24	103307-01		C2,8,9,35,36,39 R87,101	STANDOFF, .250 Long		16					
25	1366802-01		R36,58	RESISTOR, Wirewound, .5 ohm, 1/2W, 1/4%		2					
26	1366995-01		L1-48	INDUCTOR, Precision		48					
27	1366996-01		L52	INDUCTOR, Precision, 3.04μH		1					
28	1367049-01		S1	BRACKET, Switch		1					
29	1367053-01		S1	BUSHING, Shaft		1					
30	1367068-01		R84	SHAFT, Extension, resistor		1					
31	1367069-01		S1	SHAFT, Extension, switch		1					
32	1368015-01			SHIELD		1					
33	1368024-03			BRACKET, Shaft		1					
34	1368024-04			BRACKET, Shaft		1					
35	1368155-01			SHIELD, Perforated		1					
36	1368325-01		S1	SWITCH, DPDT		1					
37	1368327-01			SPACER, Handle		1					
38	1380011-01		CR49-52	DIODE, Varicap, 170PF, pairs		2					
39	1380102-13		CR1,2	CAPACITIVE DIODE, 177PF, ±.5PF, pair, set		1					
40	1380102-14		CR3,4	CAPACITIVE DIODE, 176PF, ±.5PF, pair, set		1					
41	1380102-15		CR5,6	CAPACITIVE DIODE, 175PF, ±.5PF, pair, set		1					
42	1380102-16		CR7,8	CAPACITIVE DIODE, 174PF, ±.5PF, pair, set		1					
43	1380102-17		CR9,10	CAPACITIVE DIODE, 173PF, ±.5PF, pair, set		1					
44	1380102-18		CR11,12	CAPACITIVE DIODE, 172PF, ±.5PF, pair, set		1					
45	1380102-19		CR13,14	CAPACITIVE DIODE, 171PF, ±.5PF, pair, set		1					

X1364675H

VERNIER DELAY PRINTED WIRING ASSEMBLY (MODULE 242)					CATALOG NO. X1364675		SHEET 2 OF 7						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-04							
46	1380102-20	1N4100	CR15,16	CAPACITIVE DIODE, 170PF, $\pm$ .5PF, pair, set		1							
47	1380102-21		CR17,18	CAPACITIVE DIODE, 169PF, $\pm$ .5PF, pair, set		1							
48	1380102-22		CR19,20	CAPACITIVE DIODE, 168PF, $\pm$ .5PF, pair, set		1							
49	1380102-23		CR21,22	CAPACITIVE DIODE, 167PF, $\pm$ .5PF, pair, set		1							
50	1380102-24		CR23,24	CAPACITIVE DIODE, 166PF, $\pm$ .5PF, pair, set		1							
51	1380102-25		CR25,26	CAPACITIVE DIODE, 165PF, $\pm$ .5PF, pair, set		1							
52	1380102-26		CR27,28	CAPACITIVE DIODE, 164PF, $\pm$ .5PF, pair, set		1							
53	1380102-27		CR29,30	CAPACITIVE DIODE, 163PF, $\pm$ .5PF, pair, set		1							
54	1380102-28		CR31,32	CAPACITIVE DIODE, 162PF, $\pm$ .5PF, pair, set		1							
55	1380102-29		CR33,34	CAPACITIVE DIODE, 161PF, $\pm$ .5PF, pair, set		1							
56	1380102-30		CR35,36	CAPACITIVE DIODE, 160PF, $\pm$ .5PF, pair, set		1							
57	1380102-31		CR37,38	CAPACITIVE DIODE, 159PF, $\pm$ .5PF, pair, set		1							
58	1380102-32		CR39,40	CAPACITIVE DIODE, 158PF, $\pm$ .5PF, pair, set		1							
59	1380102-33		CR41,42	CAPACITIVE DIODE, 157PF, $\pm$ .5PF, pair, set		1							
60	1380102-34		CR43,44	CAPACITIVE DIODE, 156PF, $\pm$ .5PF, pair, set		1							
61	1380102-35		CR45,46	CAPACITIVE DIODE, 155PF, $\pm$ .5PF, pair, set		1							
62	1380102-36		CR47,48	CAPACITIVE DIODE, 154PF, $\pm$ .5PF pair, set		1							
65	013-224		VR3	DIODE, Zener, 6.8V		1							
66	013-332		VR1	DIODE, Zener, 4.7V		1							
67	013-738		VR2	DIODE, Zener, 7.5V		1							
70	014-070		Q7,11,14,18,22,24	HEATSINK, Transistor		6							
72	014-248		Q5,9,16	TRANSISTOR		3							
73	014-387		Q1,13,20	TRANSISTOR		3							
74	014-505		Q21	TRANSISTOR		1							
75	014-581		Q3,25	TRANSISTOR		2							
76	014-600		Q6	TRANSISTOR		1							

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VERNIER DELAY PRINTED WIRING ASSEMBLY (MODULE 242)					CATALOG NO. X1364675	SHEET 3 OF 7							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-04							
77	014-617	2N3502	Q10,17	TRANSISTOR		2							
78	014-628		Q2	TRANSISTOR, Dual		1							
79	014-697		Q23	TRANSISTOR, Dual		1							
80	014-715		Q5	PAD, Transistor Mounting		1							
81	014-730		Q4	TRANSISTOR		1							
82	014-783		Q2, 4, 22-24	PAD, Transistor Mounting, Dual		5							
83	014-852		MD2369A	Q12,19,26	TRANSISTOR, Dual		3						
84	014-853		MD2905	Q24	TRANSISTOR		1						
85	014-914			A2	SPACER, Integrated Circuit		1						
86	014-854		MD2219	Q22	TRANSISTOR		1						
87	030-966		C45	CAPACITOR, Ceramic, .01μF, 100V, 10%		1							
88	034-182		C27	CAPACITOR, Mica, 56PF, 500V, 5%		1							
89	034-206		C46	CAPACITOR, Mica, 18PF, 500V, 5%		1							
90	034-215		C3, 43	CAPACITOR, Mica, 10PF, 500V, 5%		2							
91	034-224		C38	CAPACITOR, Mica, 160PF, 500V, 1%		1							
92	034-266		C1	CAPACITOR, Mica, 1500PF, 500V, 1%		1							
93	034-785		C5	CAPACITOR, Mica, 112PF, 500V, 1%		1							
94	034-931		C15,18,24,28	CAPACITOR, Mica, 560PF, 500V, 5%		4							
95	034-937		C14	CAPACITOR, Mica, 160PF, 500V, 5%		1							
96	034-943		C7	CAPACITOR, Mica, 27PF, 500V, 5%		1							
97	034-962		C31	CAPACITOR, Mica, 33PF, 500V, 5%		1							
100	035-828		C32,33	CAPACITOR, Mylar, .022μF, 50V, 5%		2							
103	037-246		C9	CAPACITOR, Tantalum, 180μF, 6V, 10%		1							
104	037-367		C44	CAPACITOR, Tantalum, 2.2μF, 20V, 10%		1							
105	037-164		C10	CAPACITOR, Tantalum, 1μF, 35V, 10%		1							
106	037-490		C13,21,22,26,37,42	CAPACITOR, Tantalum, 270μF, 15V,10%		6							
107	037-651		C39	CAPACITOR, Tantalum, 270μF, 10V,10%		1							
108	037-652		C35	CAPACITOR, Tantalum, 560μF, 10V,10%		1							
109	037-726		C19,20,29,30	CAPACITOR, Tantalum, 3.3μF, 15V,10%		4							
110	037-746		C36	CAPACITOR, Tantalum, 47μF, 20V, 10%		1							
111	037-749		C2,8	CAPACITOR, Tantalum, 68μF, 15V, 10%		2							
112	037-991		C11,12	CAPACITOR, Tantalum, 22μF, 15V, 10%		2							
115	038-052		C41	CAPACITOR, Variable, GL, .8-12PF, 750V		1							
118	041-104		R101	RESISTOR, Comp., 1.8K ohm, 1W, 5%		1							

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VERNIER DELAY PRINTED WIRING ASSEMBLY (MODULE 242)					CATALOG NO. X1364675	SHEET 4 OF 7 NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-04						
119	041-316		R12,18,81	RESISTOR, Comp., 2.4K ohm, 1/2W, 5%		3						
120	041-410		R107,108	RESISTOR, Comp., 1K ohm, 1/4W, 5%		2						
121	041-413		R34,57	RESISTOR, Comp., 6.8K ohm, 1/4W, 5%		2						
123	041-425		R72,73	RESISTOR, Comp., 47 ohm, 1/4W, 5%		2						
124	041-427		R7	RESISTOR, Comp., 330 ohm, 1/4W, 5%		1						
125	041-429		R25,89	RESISTOR, Comp., 680 ohm, 1/4W, 5%		2						
126	041-437		R4	RESISTOR, Comp., 1.6K ohm, 1/4W, 5%		1						
127	041-438		R38	RESISTOR, Comp., 33K ohm, 1/4W, 5%		1						
128	041-462		R102,103	RESISTOR, Comp., 1.3K ohm, 1/2W, 5%		2						
129	041-482		R60	RESISTOR, Comp., 12K ohm, 1/4W, 5%		1						
130	041-496		R28,44,54,67,90	RESISTOR, Comp., 10 ohm, 1/4W, 5%		5						
131	041-502		R13	RESISTOR, Comp., 240 ohm, 1/4W, 5%		1						
132	041-508		R35,42,56	RESISTOR, Comp., 20K ohm, 1/4W, 5%		3						
133	041-511		R100	RESISTOR, Comp., 3.9K ohm, 1/4W, 5%		1						
134	041-522		R80	RESISTOR, Comp., 910 ohm, 1/2W, 5%		1						
135	041-532		R24	RESISTOR, Comp., 910 ohm, 1/4W, 5%		1						
136	041-538		R26	RESISTOR, Comp., 6.2K ohm, 1/4W, 5%		1						
137	041-559		R8	RESISTOR, Comp., 120 ohm, 1/4W, 5%		1						
138	041-561		R98	RESISTOR, Comp., 5.1K ohm, 1/4W, 5%		1						
140	041-575		R88	RESISTOR, Comp., 130K ohm, 1/4W, 5%		1						
141	041-576		R20	RESISTOR, Comp., 390K ohm, 1/4W, 5%		1						
142	041-651		R91	RESISTOR, Comp., 33 ohm, 1/4W, 5%		1						
143	041-735		R11	RESISTOR, Comp., 91 ohm, 1/4W, 5%		1						
144	041-740		R19	RESISTOR, Comp., 200 ohm, 1/4W, 5%		1						
145	041-750		R79	RESISTOR, Comp., 24k ohm, 1/4W, 5%		1						
146	041-758		R14	RESISTOR, Comp., 200K ohm, 1/4W, 5%		1						
147	041-777		R6	RESISTOR, Comp., 2 megohm, 1/4W, 5%		1						
148	041-419		R40,41,61,65,97	RESISTOR, Comp., 100 ohm, 1/4W, 5%		5						
149	041-569		R39,62	RESISTOR, Comp., 300 ohm, 1/4W, 5%		2						
150	042-758		R78	RESISTOR, Metal Film, 10 ohm, 1/8W,1%		1						
151	042-762		R23	RESISTOR, Metal Film,169 ohm,1/8W,1%		1						
152	042-763		R33,47,51,63	RESISTOR, Metal Film,200 ohm,1/8W,1%		4						
155	048-131		R70,106	RESISTOR, Metal Film, 1.21K ohm, 1/2W, 1%		2						
156	048-667		R87	RESISTOR, Metal Film, 2.15K ohm, 1/2W, 1%		1						
157	048-712		R9,71	RESISTOR, Metal Film, 75 ohm,1/4W,1%		2						

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VERNIER DELAY PRINTED WIRING ASSEMBLY (MODULE 242)						CATALOG NO. X1364675		SHEET 5 OF 7							
								NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-04									
160	049-574		R74,75,82,83	RESISTOR, Comp., 1 ohm, 1/2W, 5%		4									
163	055-859		C16,17,23,25	CAPACITOR, Mylar, .33μF, 50V, 1%		4									
164	055-861		C6	CAPACITOR, Mylar, .50μF, 50V, 5%		1									
166	056-291		C10	CAPACITOR, Mica, 470PF, 500V, 1%		1									
167	056-391		C4	CAPACITOR, Mica, 540PF, 500V, 1%		1									
170	057-224		R5	RESISTOR, Metal Film, 301 ohm, 1/8W, 1%		1									
171	057-227		R2	RESISTOR, Metal Film, 274 ohm, 1/8W, 1%		1									
172	057-228		R29,30,45,46,50,55,68,69	RESISTOR, Metal Film, 1.5K ohm, 1/8W, 1%		8									
173	057-240		R22	RESISTOR, Metal Film, 2.32K ohm, 1/2W, 1%		1									
174	057-514		R95,96	RESISTOR, Metal Film, 5.62K ohm, 1/8W, 1%		2									
177	058-527		R32,52	RESISTOR, Variable, cermet, 20K ohm, 1/2W, 10%		2									
178	058-637		R77	RESISTOR, Variable, cermet, 20 ohm, 1/2W, 5%		1									
179	058-638		R84	RESISTOR, Variable, cermet, 20 ohm, 1W, 5%		1									
182	059-362		R31,48,49,64	RESISTOR, Wirewound, 65 ohm,1W, 1%		4									
185	062-045		R99	RESISTOR, Metal Film, 287 ohm, 1/8W, 1%		1									
186	062-451		R10	RESISTOR, Metal Film, 110 ohm, 1/8W, 1%		1									
187	062-478		R27,43,53,66,76	RESISTOR, Metal Film, 140 ohm, 1/8W, 1%		5									
188	062-480		R21	RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		1									
189	062-517		R94	RESISTOR, Metal Film, 1.3K ohm, 1/8W, 1%		1									
190	062-593		R92	RESISTOR, Metal Film, 750 ohm, 1/8W, 1%		1									
191	062-661		R86,104	RESISTOR, Metal Film, 237 ohm, 1/8W, 1%		2									
192	062-704		R16	RESISTOR, Metal Film, 2.67K ohm, 1/8W, 1%		1									
193	062-734		R1	RESISTOR, Metal Film, 95.3 ohm, 1/8W, 1%		1									
194	062-766		R3	RESISTOR, Metal Film, 294 ohm, 1/8W, 1%		1									
195	062-767		R15,17	RESISTOR, Metal Film, 30.1K ohm, 1/8W, 1%		2									
196	062-768		R105	RESISTOR, Metal Film, 255 ohm, 1/8W, 1%		1									

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VERNIER DELAY PRINTED WIRING ASSEMBLY (MODULE 242)						CATALOG NO. X1364675		SHEET 6 OF 7					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-04							
197	062-769		R85	RESISTOR, Metal Film, 30.9 ohm, 1/8W, 1%		1							
198	062-770		R37,59	RESISTOR, Metal Film, 1K ohm, 1/4W, 1/4%		2							
199	062-785		R93	RESISTOR, Metal Film, 1.02K ohm, 1/8W, 1%		1							
202	087-388		Q7,11,14,18,22,24	SILICONE COMPOUND		A/R							
203	139-021		J8	CONNECTOR, Coaxial		1							
205	143-933		TP1,2	CONNECTOR, Bulkhead, receptacle		2							
206	143-981		J9-A, B, C J11 -A, B, C J12 -A, B, C J10-A, B	JACK, Printed Circuit		11							
209	166-219		TP3-5	CONNECTOR, RF Receptacle		3							
214	173-620		E1,2,4-9,11,14,16,20,21,22,25,28-30	TERMINAL STUD, Turret		18							
215	173-634		E17,18,26,27 Ref. Item 35	TERMINAL STUD, Bifurcated		11							
218	280-130		Q1,3,6,9,10,13,16,17,20,21,25	PAD, Transistor Mounting		11							
219	280-998		Q7,11,14,18	PAD, Transistor Mounting		4							
222	281-041		S1	COUPLER, Switch		1							
225	435-995		Q25	HEATSINK, Transistor		1							
227	471-584			SCREW, Binder Head, 2-56 x .250		4							
229	472-451			SCREW, Cross-Recessed, pan head, 2-56 x .188		2							
230	472-450			SCREW, Cross-Recessed, pan head, 2-56 x .125		2							
231	472-465			SCREW, Cross-Recessed, flat head, 2-56 x .250		2							
232	472-573			SCREW, Button Head, 4-40 x .250		1							
234	473-337			SCREW, Binder Head, 4-40 x .250		1							
237	477-157			SCREW, Set, 2-56 x .093		2							
239	492-466			NUT, 2-56, small pattern		6							
241	501-684			WASHER, Flat, nylon		1							
242	502-007			WASHER, Spring, 2-56		10							
243	502-008			WASHER, Spring, 4-40		1							
246	540-083		L51,53	INDUCTOR, Variable, .68μH, 20%		2							
248	541-075		L50	INDUCTOR, Variable, 150μH, 20%		1							
249	541-076		L49	INDUCTOR, Variable, 1.5μH, 20%		1							

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VERNIER DELAY PRINTED WIRING ASSEMBLY (MODULE 242)					CATALOG NO. X1364675	SHEET 7 OF 7							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-04							
250	541-142		L54	INDUCTOR, 1.2μH, 5%		1							
253	580-265	2N4937	Q8,15	TRANSISTOR, Dual		2							
254	580-313	2N5152	Q7,14	TRANSISTOR		2							
255	580-316	2N5151	Q11,18	TRANSISTOR		2							
258	586-315	NH0002C	A2	INTEGRATED CIRCUIT		1							
259	586-495	NH0005C	A1	INTEGRATED CIRCUIT		1							
260	586-512		A1	SPACER, Integrated Circuit		1							
263	600-234			SLEEVING, Teflon		A/R							
266	602-012		J9-12	PLUG, Shorting		4							
269	615-002			WIRE, Bare, 22 AWG		A/R							
270	616-568			COAXIAL, Low C, 93 ohm		A/R							
272	932-035		FB1-10	FERRITE BEADS		10							

X1364675H







**VIDEO OUTPUT  
MODULES 243-244**

VIDEO GAIN CONTROL PRINTED WIRING ASSEMBLY (MODULE 102/243)						CATALOG NO. 1364365		SHEET 1 OF 4			
								NHA 1366025,1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364367			SCHEMATIC		REF					
5	103307-02		C3, 6, 7	STANDOFF, Component		12					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
9	1365671-01			COVER, Module		-					
11	473-325			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Cross-Recessed, pan head, assembled washer, 4-40 x .250		4					
14	501-008			WASHER, Plain, #4		4					
15	173-013		E1-10	TERMINAL, Bifurcated		10					
16	139-021		J2-5, 7, 8	CONNECTOR, Coaxial, plug, 75 ohm		6					
19	501-711			WASHER, Flat, brass, .040 thick		5					
20	501-712			WASHER, Flat, brass, .032 thick		1					
21	501-715			WASHER, Shoulder, nylon		10					
24	013-257		VR1	DIODE, 6.2V		1					
25	013-354		VR2	DIODE, 15V		1					
26	013-689		CR1-7	DIODE		7					
29	014-248		Q9,10,12,16	TRANSISTOR		4					
30	014-364		Q6,7	TRANSISTOR		2					
31	014-387		Q11,13,18,19	TRANSISTOR		4					
32	014-506		Q1,3,5,8	TRANSISTOR		4					
33	014-581		Q4	TRANSISTOR		1					
34	014-600		Q14	TRANSISTOR		1					
35	014-617		Q17	TRANSISTOR		1					
36	014-631		Q15	TRANSISTOR		1					
37	014-697		Q2	TRANSISTOR		1					
38	030-223		C27	CAPACITOR, Ceramic, 2.2μFD, 25V, 20%		1					
39	034-156		C16	CAPACITOR, Mica, 5PF, 500V,+.5PF		1					
40	034-182		C30	CAPACITOR, Mica, 56PF, 500V, 5%		1					
41	034-943		C14	CAPACITOR, Mica, 27PF, 500V, 5%		1					
42	034-962		C22,29	CAPACITOR, Mica, 33PF, 500V, 5%		2					
43	034-963		C23	CAPACITOR, Mica, 15PF, 500V, 5%		1					
44	035-837		C4,13,15,28,31	CAPACITOR, Mylar, 0.1μFD, 50V,10%		5					
45	035-847		C21	CAPACITOR, Mylar, .033μFD, 50V,10%		1					
46	035-858		C20	CAPACITOR, Mylar, .047μFD, 50V,10%		1					
47	037-237		C11	CAPACITOR, Tantalum, 220μF, 10V, 10%		1					
48	037-380		C5	CAPACITOR, Tantalum, 400μF, 6V,N.P.		1					
49	037-740		C1,2	CAPACITOR, Tantalum, 33μF, 10V, 10%		2					
50	037-746		C24-26	CAPACITOR, Tantalum, 47μF,20V,10%		3					
51	037-985		C8-10,12,17-19,32	CAPACITOR, Tantalum, 15μF,20V,10%		8					
52	038-052		C3,6,7	CAPACITOR, Variable, .8 - 12PF		3					
55	041-002		R26	RESISTOR, Fixed, 10 ohm, 1/2W, 5%		1					
56	041-003		R29,96	RESISTOR, Fixed, 100 ohm,1/2W, 5%		2					

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VIDEO GAIN CONTROL PRINTED WIRING ASSEMBLY (MODULE 102/243)						CATALOG NO.	1364365	SHEET 2 OF 4			
									NHA 1366025, 1366053		
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
57	041-008		R42,88,92,94	RESISTOR, Fixed, 1.5K ohm, 1/2W, 5%		4					
58	041-009		R54	RESISTOR, Fixed, 1.8K ohm, 1/2W, 5%		1					
59	041-010		R62,95	RESISTOR, Fixed, 2K ohm, 1/2W, 5%		2					
60	041-014		R76,80,61	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		3					
61	041-017		R59	RESISTOR, Fixed, 33K ohm, 1/2W, 5%		1					
62	041-239		R53,63	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		2					
63	041-245		R32,52	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		2					
64	041-254		R64	RESISTOR, Fixed, 15K ohm, 1/2W, 5%		1					
65	041-278		R58	RESISTOR, Fixed, 2.7K ohm, 1/2W, 5%		1					
66	041-282		R60	RESISTOR, Fixed, 150 ohm, 1/2W, 5%		1					
67	041-283		R4,11,33,46,24,68,83	RESISTOR, Fixed, 47 ohm, 1/2W, 5%		7					
68	041-309		R56	RESISTOR, Fixed, 8.2K ohm, 1/2W, 5%		1					
69	041-316		R9	RESISTOR, Fixed, 2.4K ohm, 1/2W, 5%		1					
70	041-330		R84	RESISTOR, Fixed, 6.8K ohm, 1/2W, 5%		1					
71	041-333		R55	RESISTOR, Fixed, 43 ohm, 1/2W, 5%		1					
72	041-334		R44	RESISTOR, Fixed, 200 ohm, 1/2W, 5%		1					
73	041-343		R57	RESISTOR, Fixed, 680 ohm, 1/2W, 5%		1					
74	041-373		R72	RESISTOR, Fixed, 9.1K ohm, 1/2W, 5%		1					
75	041-384		R90,98	RESISTOR, Fixed, 68 ohm, 1/2W, 5%		2					
76	041-405		R51	RESISTOR, Fixed, 1.2K ohm, 1/2W, 5%		1					
77	041-461		R39	RESISTOR, Fixed, 180 ohm, 1/2W, 5%		1					
78	041-475		R40,89,97,75	RESISTOR, Fixed, 3K ohm, 1/2W, 5%		4					
79	041-509		R47	RESISTOR, Fixed, 180 ohm, 1W, 5%		1					
80	041-513		R91,93	RESISTOR, Fixed, 15 ohm, 1/2W, 5%		2					
81	041-516		R1,5,19	RESISTOR, Fixed, 75 ohm, 1/2W, 5%		3					
82	041-522		R10,31	RESISTOR, Fixed, 910 ohm, 1/2W, 5%		2					
83	041-526		R77,82	RESISTOR, Fixed, 1.6K ohm, 1/2W, 5%		2					
84	041-529		R74	RESISTOR, Fixed, 20K ohm, 1/2W, 5%		1					
85	041-831		R30	RESISTOR, Fixed, 150 ohm, 1W, 5%		1					
86	041-950		R73	RESISTOR, Fixed, 16K ohm, 1/2W, 5%		1					
87	044-274		R71	RESISTOR, Variable, 10K ohm, 1W, 5%		1					
88	044-730		R37	RESISTOR, Variable, 500 ohm, 1W, 5%		1					
89	044-792		R3	RESISTOR, Variable, 500 ohm, 1W, 10%		1					
90	044-803		R22	RESISTOR, Variable, 50 ohm, 1W, 10%		1					
93	042-463		R15	RESISTOR, Metal Film, 78.7 ohm, 1/2W, 1%		1					
94	048-143		R14	RESISTOR, Metal Film, 2.67K ohm, 1/2W, 1%		1					
95	048-402		R86	RESISTOR, Metal Film, 100 ohm, 1/2W, 1%		1					
96	048-407		R66	RESISTOR, Metal Film, 3.32K ohm, 1/2W, 1%		1					
97	048-410		R67	RESISTOR, Metal Film, 49.9K ohm, 1/2W, 1%		1					
98	048-668		R36	RESISTOR, Metal Film, 1.33K ohm, 1/2W, 1%		1					
99	048-758		R12	RESISTOR, Metal Film, 30.1K ohm, 1/2W, 1%		1					
100	048-776		R78	RESISTOR, Metal Film, 2.37K ohm, 1/2W, 1%		1					

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VIDEO GAIN CONTROL PRINTED WIRING ASSEMBLY (MODULE 102/243)					CATALOG NO. 1364365	SHEET 3 OF 4 NHA 1366025,1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
101	048-794		R65,81	RESISTOR, Metal Film, 1K ohm, 1/2W, 1%		2							
102	048-823		R13,38	RESISTOR, Metal Film, 2K ohm, 1/2W, 1%		2							
103	048-827		R48,49	RESISTOR, Metal Film, 73.2 ohm, 1/2W, 1%		2							
104	048-828		R6,8	RESISTOR, Metal Film, 51.1 ohm, 1/2W, 1%		2							
105	048-831		R28	RESISTOR, Metal Film, 232 ohm, 1/2W, 1%		1							
106	048-864		R34	RESISTOR, Metal Film, 82.5 ohm, 1/2W, 1%		1							
107	048-875		R41	RESISTOR, Metal Film, 332 ohm, 1/2W, 1%		1							
108	048-893		R21,35	RESISTOR, Metal Film, 909 ohm, 1/2W, 1%		2							
109	048-948		R16	RESISTOR, Metal Film, 1.91K ohm, 1/2W, 1%		1							
110	057-241		R70	RESISTOR, Metal Film, 365 ohm, 1/2W, 1%		1							
111	057-248		R87	RESISTOR, Metal Film, 10.5K ohm, 1/2W, 1%		1							
112	057-261		R20	RESISTOR, Metal Film, 464 ohm, 1/2W, 1%		1							
113	057-262		R50	RESISTOR, Metal Film, 750 ohm, 1/2W, 1%		1							
114	057-381		R17	RESISTOR, Metal Film, 5.23K ohm, 1/2W, 1%		1							
115	057-409		R18	RESISTOR, Metal Film, 2.74K ohm, 1/2W, 1%		1							
116	057-415		R25,27	RESISTOR, Metal Film, 536 ohm, 1/2W, 1%		2							
117	057-423		R69	RESISTOR, Metal Film, 93.1 ohm, 1/2W, 1%		1							
118	057-561		R7	RESISTOR, Metal Film, 2.1K ohm, 1/2W, 1%		1							
119	057-630		R79	RESISTOR, Metal Film, 2.43K ohm, 1/2W, 1%		1							
120	057-809		R43,45	RESISTOR, Metal Film, 787 ohm, 1/2W, 1%		2							
121	057-833		R85	RESISTOR, Metal Film, 3.4K ohm, 1/2W, 1%		1							
122	062-221		R2	RESISTOR, Metal Film, 1.54K ohm, 1/2W, 1%		1							
123	062-401		R23	RESISTOR, Metal Film, 412 ohm, 1/4W, 1%		1							
126	051-281		L1	INDUCTOR, Fixed, .1μH, 20%		1							
127	051-665		L3	INDUCTOR, Fixed, 3900μH, 5%		1							
128	540-030		L4	INDUCTOR, Fixed, 330μH, 5%		1							
129	540-042		L2	INDUCTOR, Fixed, 820μH, 5%		1							
132	280-130		Q1,3-5,8-14,16-19	SPACER, Transistor, small		15							
133	280-173		A4,Q2,15	SPACER, Integrated Circuit, 8 pin		3							
134	280-174		A1-3	SPACER, Integrated Circuit, 10 pin		3							
135	280-998		Q6,7	SPACER, Transistor, large		2							
138	143-981		J9A,B,C,D,E	CONNECTOR, Jack		5							

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VIDEO GAIN CONTROL PRINTED WIRING ASSEMBLY (MODULE 102/243)					CATALOG NO. 1364365		SHEET 4 OF 4						
							NHA 1366025, 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
139	602-012			SHORTING PLUG		2							
142	586-060	UA710	A4	INTEGRATED CIRCUIT		1							
143	586-114	MC1550G	A1-3	INTEGRATED CIRCUIT		3							

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VIDEO OUTPUT PRINTED WIRING ASSEMBLY (MODULE 244)						CATALOG NO. X1364781		SHEET 1 OF 5			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364783			SCHEMATIC		REF					
4	103307-01			STANDOFF, Component, .25 long		24					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
10	018-285			ADHESIVE, Thread Locking		A/R					
11	473-325			SCREW, Cross-Recessed, pan head 4-40 x .312		1					
12	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
17	013-354		VR3-7	DIODE, 15V		5					
18	013-358		VR1	DIODE, 5.1V		1					
19	013-678		CR1	DIODE		1					
20	013-689		CR2-15	DIODE		14					
21	013-983		VR2	DIODE, 5.6V		1					
22	1368188-89			LABEL		1					
23	1368260-01			OVERLAY		1					
24	014-247		Q1,28-31	TRANSISTOR		5					
25	014-248		Q12	TRANSISTOR		1					
26	014-364		Q26,27,32-35	TRANSISTOR		6					
27	014-383		Q14	TRANSISTOR		1					
28	014-505		Q5,8,9,15,16, 20,23	TRANSISTOR		7					
29	014-506		Q6,7,10,13,17- 19,21,24,25	TRANSISTOR		10					
30	014-576	2N2784	Q3,4	TRANSISTOR		2					
31	014-581		Q22	TRANSISTOR		1					
32	014-852	MD2369A	Q2,11	TRANSISTOR, Dual		2					
33	103307-03		C3,4	STANDOFF COMPONENT, .312 long		8					
35	020-467		K1	RELAY, DPDT		1					
36	1360036-01		K1	INSULATOR, Relay		1					
37	1365686-05		L7	COIL, Peaking, 4.5 - 8.6μH		1					
38	034-153		C24	CAPACITOR, Mica, 1000PF, 500V, 5%		1					
39	034-199		C33	CAPACITOR, Mica, 300PF, 500V, 5%		1					
40	056-453		C45	CAPACITOR, Mica, 61PF, 500V, 1%		1					

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VIDEO OUTPUT PRINTED WIRING ASSEMBLY (MODULE 244)				CATALOG NO. X1364781		SHEET 2 OF 5					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
41	034-182		C5	CAPACITOR, Mica, 56PF, 500V, 5%		1					
42	056-456		C31	CAPACITOR, Mica, 410PF, 500V, 1%		1					
43	034-283		C18	CAPACITOR, Mica, 820PF, 300V, 5%		1					
44	056-206		C14,15	CAPACITOR, Mica, 497PF, 500V, 1%		2					
45	056-452		C46	CAPACITOR, Mica, 6.3PF, 500V, .5PF		1					
46	056-454		C44	CAPACITOR, Mica, 95.5PF, 500V, 1%		1					
47	034-950		C2	CAPACITOR, Mica, 1000PF, 100V, 5%		1					
48	034-944		C40-43	CAPACITOR, Mica, 20PF, 500V, 5%		4					
49	034-962		C6	CAPACITOR, Mica, 33PF, 500V, 5%		1					
50	056-455		C39	CAPACITOR, Mica, 143PF, 500V, 1%		1					
51	044-198		R36	RESISTOR, Variable, wirewound, 1K ohm		1					
53	035-893		C1,7,8,10,20,22,23,27,30,37	CAPACITOR, Mylar, .1μF, 50V, 5%		10					
54	030-963		C12	CAPACITOR, Ceramic, .1μF, 100V, 10%		1					
57	037-186		C47	CAPACITOR, Tantalum, 120μF, 10V, 10%		1					
58	037-472		C26,28	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		2					
59	037-726		C17	CAPACITOR, Tantalum, 3.3μF, 15V, 10%		1					
60	037-728		C16	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		1					
61	037-736		C19	CAPACITOR, Tantalum, 22μF, 35V, 10%		1					
62	037-740		C21	CAPACITOR, Tantalum, 33μF, 10V, 10%		1					
63	037-746		C32	CAPACITOR, Tantalum, 47μF, 20V, 10%		1					
64	037-985		C9,11,29,34-36,48-54	CAPACITOR, Tantalum, 15μF, 20V, 10%		13					
65	037-995		C38	CAPACITOR, Tantalum, 400μF, 15V, -15 +75%		1					
68	038-039		C3,4	CAPACITOR, Variable, .8 -30PF		2					
72	041-001		R8	RESISTOR, Comp., 5100 ohm, 1/2W, 5%		1					
73	041-003		R46	RESISTOR, Comp., 100 ohm, 1/2W, 5%		1					
74	041-009		R77	RESISTOR, Comp., 1800 ohm, 1/2W, 5%		1					
75	041-010		R75	RESISTOR, Comp., 2000 ohm, 1/2W, 5%		1					
76	041-012		R111	RESISTOR, Comp., 4300 ohm, 1/2W, 5%		1					
77	041-013		R57,87	RESISTOR, Comp., 4700 ohm, 1/2W, 5%		2					
78	041-016		R5	RESISTOR, Comp., 22K ohm, 1/2W, 5%		1					
79	041-498		R76	RESISTOR, Comp., 24K ohm, 1/2W, 5%		1					
83	041-101		R2	RESISTOR, Comp., 620 ohm, 1W, 5%		1					
84	041-239		R30,47,78	RESISTOR, Comp., 2.2K ohm, 1/2W, 5%		3					

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VIDEO OUTPUT PRINTED WIRING ASSEMBLY (MODULE 244)						CATALOG NO. X1364781		SHEET 3 OF 5			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
85	041-245		R28,38,71,115,116,123,126,129,132	RESISTOR, Comp., 1K ohm, 1/2W, 5%		9					
86	041-283		R4,41,44,81,82,112	RESISTOR, Comp., 47 ohm, 1/2W, 5%		6					
87	041-316		R25,26,68,69	RESISTOR, Comp., 2.4K ohm, 1/2W, 5%		4					
88	041-334		R66	RESISTOR, Comp., 200 ohm, 1/2W, 5%		1					
89	041-343		R67	RESISTOR, Comp., 680 ohm, 1/2W, 5%		1					
90	041-345		R39	RESISTOR, Comp., 51 ohm, 1/2W, 5%		1					
91	041-357		R18,40,74	RESISTOR, Comp., 5.6K ohm, 1/2W, 5%		3					
92	041-404		R32	RESISTOR, Comp., 510 ohm, 1/2W, 5%		1					
93	041-421		R65	RESISTOR, Comp., 22 ohm, 1/2W, 5%		1					
94	041-454		R55,56	RESISTOR, Comp., 39 ohm, 1/2W, 5%		2					
95	041-462		R16,19	RESISTOR, Comp., 1.3K ohm, 1/2W, 5%		2					
96	041-405		R120	RESISTOR, Comp., 1.2K ohm, 1/2W, 5%		1					
97	041-489		R90,93,98,103,108	RESISTOR, Comp., 33 ohm, 1/2W, 5%		5					
98	041-504		R14,15	RESISTOR, Comp., 510 ohm, 1/4W, 5%		2					
99	041-509		R88,124,127,130,133	RESISTOR, Comp., 180 ohm, 1W, 5%		5					
100	041-516		R21	RESISTOR, Comp., 75 ohm, 1/2W, 5%		1					
101	041-522		R91,96,101,106	RESISTOR, Comp., 910 ohm, 1/2W, 5%		4					
102	041-544		R20	RESISTOR, Comp., 910 ohm, 1W, 5%		1					
104	041-008		R29,48	RESISTOR, Comp., 1.5K ohm, 1/2W, 5%		2					
105	041-526		R43	RESISTOR, Comp., 1.6K ohm, 1/2W, 5%		1					
106	041-558		R17,72	RESISTOR, Comp., 56 ohm, 1/2W, 5%		2					
107	041-647		R95,100,105,109	RESISTOR, Comp., 75 ohm, 1/4W, 5%		4					
108	041-831		R122,125,128,131	RESISTOR, Comp., 150 ohm, 1W, 5%		4					
109	041-981		R121	RESISTOR, Comp., 130 ohm, 1W, 5%		1					
110	041-317		R89	RESISTOR, Comp., 820 ohm, 1/2W, 5%		1					
111	042-474		R92,97,102,107	RESISTOR, Metal Film, 84.5 ohm, 1/4W, 1%		4					
112	042-476		R24	RESISTOR, Metal Film, 2.21K ohm, 1/4W, 1%		1					
113	042-481		R114	RESISTOR, Metal Film, 2.74K ohm, 1/4W, 1%		1					
114	042-483		R60	RESISTOR, Metal Film, 15K ohm, 1/4W, 1%		1					

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VIDEO OUTPUT PRINTED WIRING ASSEMBLY (MODULE 244)					CATALOG NO. X1364781		SHEET 4 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
115	042-763		R9	RESISTOR, Metal Film, 200 ohm, 1/8W, 1%		1							
116	044-444		R53	RESISTOR, Variable, wirewound, 100 ohm		1							
118	044-793		R3	RESISTOR, Variable, cermet, 200 ohm		1							
119	058-581		R6,7	RESISTOR, Variable, cermet, 20K ohm		2							
120	048-258		R83,117	RESISTOR, Metal Film, 1.69K ohm, 1/4W, 1%		2							
121	048-259		R86	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		1							
122	048-260		R31,113	RESISTOR, Metal Film, 681 ohm, 1/4W, 1%		2							
123	062-541		R22	RESISTOR, Metal Film, 357 ohm, 1/4W, 1%		1							
124	062-496		R80	RESISTOR, Metal Film, 665 ohm, 1/4W, 1%		1							
125	062-689		R27	RESISTOR, Metal Film, 698 ohm, 1/4W, 1%		1							
126	048-618		R33	RESISTOR, Metal Film, 2K ohm, 1/4W, 1%		1							
127	057-828		R119	RESISTOR, Metal Film, 1050 ohm, 1/4W, 1%		1							
128	048-692		R118	RESISTOR, Metal Film, 82.5 ohm, 1/4W, 1%		1							
129	048-712		R37,42	RESISTOR, Metal Film, 75 ohm, 1/4W, 1%		2							
130	048-727		R10-13,85	RESISTOR, Metal Film, 499 ohm, 1/4W, 1%		5							
131	048-257		R52	RESISTOR, Metal Film, 3010 ohm, 1/4W, 1%		1							
133	048-761		R51,61,73	RESISTOR, Metal Film, 2.43K ohm, 1/4W, 1%		3							
134	051-586		L2,4	INDUCTOR, 1.95μH, 1.25%		2							
135	051-587		L3	INDUCTOR, 3.90μH, 1.25%		1							
137	056-205		C13,25	CAPACITOR, Mica, 122PF, 1%		2							
139	057-424		R23	RESISTOR, Metal Film, 1.82K ohm, 1/4W, 1%		1							
140	057-453		R34	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		1							
141	062-540		R84	RESISTOR, Metal Film, 5.49K ohm, 1/4W, 1%		1							
142	057-675		R62	RESISTOR, Metal Film, 301ohm, 1/4W, 1%		1							
143	062-538		R1	RESISTOR, Metal Film, 316 ohm, 1/4W, 1%		1							
144	057-793		R35	RESISTOR, Metal Film, 2.1K ohm, 1/4W, 1%		1							

X1364781E

VIDEO OUTPUT PRINTED WIRING ASSEMBLY (MODULE 244)						CATALOG NO. X1364781		SHEET 5 OF 5			
								NHA 1366053			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
146	062-254		R49	RESISTOR, Metal Film, 768 ohm, 1/4W, 1%		1					
147	057-910		R94,99,104,110	RESISTOR, Metal Film, 549 ohm, 1/4W, 1%		4					
148	057-678		R50	RESISTOR, Metal Film, 750 ohm, 1/4W, 1%		1					
149	042-472		R45	RESISTOR, Metal Film, 7150 ohm, 1/4W, 1%		1					
150	057-878		R70	RESISTOR, Metal Film, 1780 ohm, 1/4W, 1%		1					
152	062-539		R63,64	RESISTOR, Metal Film, 205 ohm, 1/4W, 1%		2					
153	062-392		R58,59	RESISTOR, Metal Film, 215 ohm, 1/4W, 1%		2					
154	048-726		R54	RESISTOR, Metal Film, 226 ohm, 1/4W, 1%		1					
157	139-021		J1-8	CONNECTOR, Coaxial, 75 ohm		8					
158	143-981		J9-12	JACK, Closed Entry		12					
159	173-013		E1-16	TERMINAL, Bifurcated		16					
161	280-173		Q2,11	SPACER, Transistor, 8 pin		2					
162	280-130			SPACER, Transistor		22					
164	280-174		A3	SPACER, Integrated Circuit, 10 pin		1					
165	280-998		Q1,26-35	SPACER, Transistor		11					
166	014-366		Q23,24	HEATSINK, Transistor		2					
168	501-740			WASHER, Flat, .016 thick		7					
169	501-712			WASHER, Flat, .032 thick		1					
170	501-715			WASHER, Shoulder, nylon		14					
173	051-495		L1	INDUCTOR, 15μH, 1.25%		1					
174	051-771		L9	INDUCTOR, 13.2μH, 1.25%		1					
175	051-774		L6	INDUCTOR, 50μH, 1.25%		1					
176	051-772		L8	INDUCTOR, 20.4μH, 1.25%		1					
177	051-773		L5	INDUCTOR, 32μH, 1.25%		1					
179	560-094	Aladdin 70-110-03	T1,2	TRANSFORMER		2					
181	586-114	MC1550	A3	INTEGRATED CIRCUIT		1					
182	586-455	MC3000L	A1,2	INTEGRATED CIRCUIT		2					
183	600-150		Q9,10	TUBING, Shrinkable		A/R					
184	602-012		J9-12	PLUG, Shorting		4					
186	616-569			CABLE, Coaxial, 75 ohm		A/R					

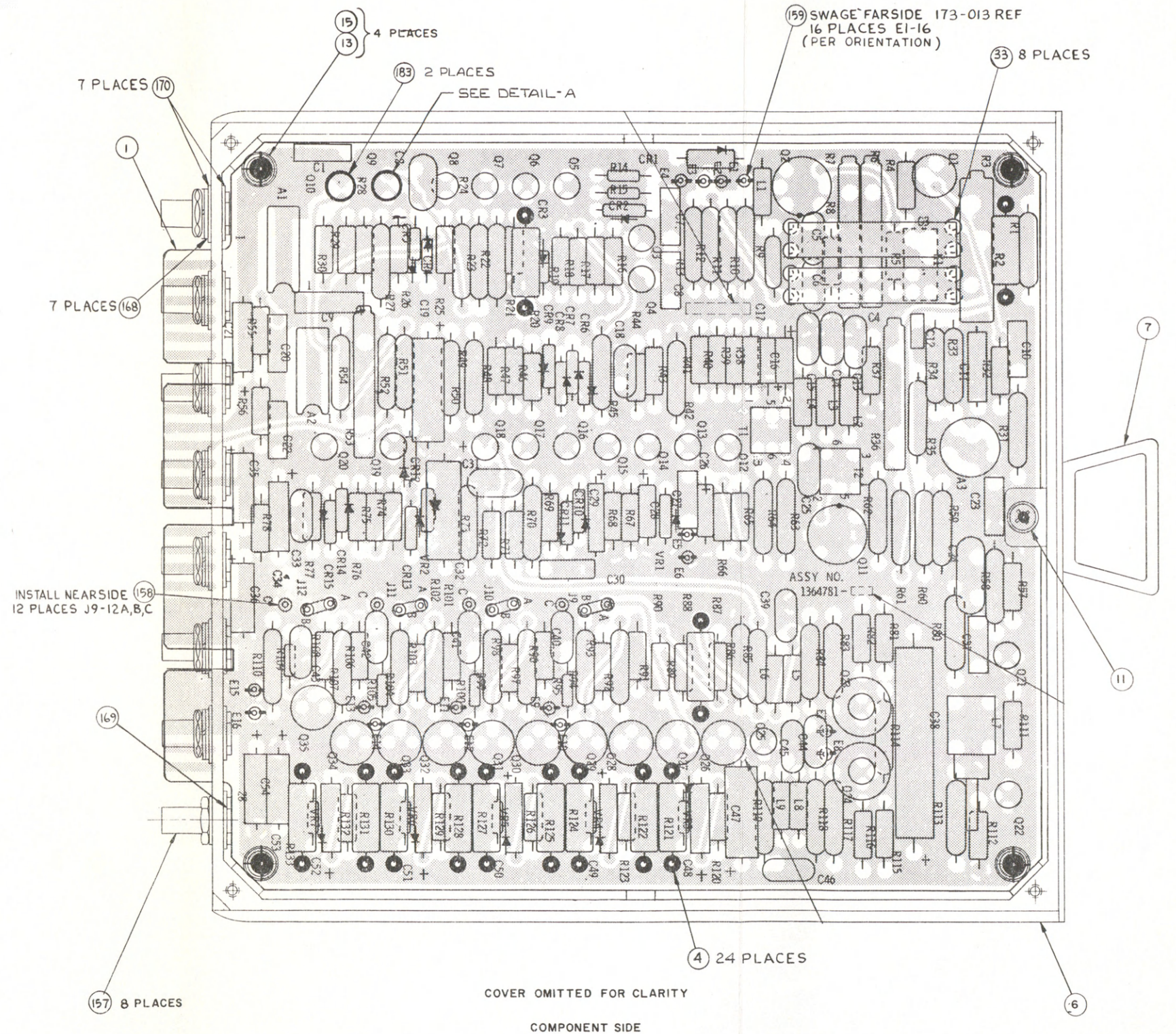
X1364781E

UPDATED FEB. 1971

10-677A/678A



AMPEX



Video Output Printed Wiring Assembly (Module 244)  
Drawing No. 1364781E



REFERENCE SUBCARRIER PROCESSOR NO. 1 PRINTED WIRING ASSEMBLY (MODULE 203)				CATALOG NO. 1364687	SHEET 1 OF 5 NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364689			SCHEMATIC		REF					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
11	473-325			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .312		1					
12	471-325			SCREW, Cross-recessed, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
17	013-431		VR1	DIODE, Zener, 3.6V		1					
18	013-599		CR1,2	DIODE		2					
19	013-678		CR5	DIODE		1					
20	013-837		A6	DIODE, Assembly, silicon, quad		1					
21	013-978	1N456A	CR3,4	DIODE		2					
25	014-247		Q6,10	TRANSISTOR, Silicon		2					
26	014-248		Q1,21,22	TRANSISTOR, Silicon		3					
27	014-383	2N2484	Q31	TRANSISTOR, Silicon		1					
29	014-505		Q14,26,27	TRANSISTOR, Silicon		3					
30	014-506		Q11-13,18	TRANSISTOR, Silicon		4					
31	014-576	2N2784	Q19,20	TRANSISTOR, Silicon		2					
32	014-581		Q4,7,9,25,28	TRANSISTOR, Silicon		5					
33	014-600		Q17	TRANSISTOR, Silicon		1					
34	041-628		Q16	TRANSISTOR, Silicon, dual		1					
35	041-631		Q29	TRANSISTOR, Silicon, dual		1					
36	041-730	2N3502	Q15	TRANSISTOR, Silicon		1					
37	014-850	MD918A	Q23,24	TRANSISTOR, Silicon, dual		2					
38	014-851	MD2369B	Q2,3,5,8	TRANSISTOR, Silicon, dual		4					
39	014-855	2N2918	Q30	TRANSISTOR, Silicon, dual		1					
43	1360036-01			MOUNTING PAD, Relay		1					
44	020-467		K1	RELAY, DPDT		1					
47	034-215		C33	CAPACITOR, Mica, 10pF, 500V, $\pm 5\text{pF}$		1					
48	034-222		C61,62	CAPACITOR, Mica, 100pF, 500V, $\pm 1\%$		2					
49	034-240		C43,53	CAPACITOR, Mica, 220pF, 500V, $\pm 5\%$		2					
50	034-541		C56	CAPACITOR, Mica, 62pF, 500V, $\pm 1\%$		1					
51	034-327		C9,10	CAPACITOR, Mica, 30pF, 500V, $\pm 2\%$		2					
52	034-571		C11	CAPACITOR, Mica, 36pF, 500V, $\pm 2\%$		1					
53	034-918		C46	CAPACITOR, Mica, 68pF, 500V, $\pm 1\%$		1					
54	034-944		C63	CAPACITOR, Mica, 20pF, 500V, $\pm 5\%$		1					
57	035-734		C44,51	CAPACITOR, Mylar, .01 $\mu\text{F}$ , 50V, $\pm 5\%$		2					
58	055-166		C58	CAPACITOR, Mylar, .001 $\mu\text{F}$ , 50V, $\pm 5\%$		1					
59	035-893		C6,21,28,29,30,36,37,52	CAPACITOR, Mylar, .1 $\mu\text{F}$ , 50V, $\pm 5\%$		8					
60	035-828		C12	CAPACITOR, Mylar, .022 $\mu\text{F}$ , 50V, $\pm 5\%$		1					
63	037-991		C23,54	CAPACITOR, Tantalum, 22 $\mu\text{F}$ , 15V, $\pm 10\%$		2					
64	037-726		C40	CAPACITOR, Tantalum, 3.3 $\mu\text{F}$ , 15V, $\pm 10\%$		1					
65	037-164		C1-8,13-16,18-20,22,25-27,41,42,45,47,48,59,64,66	CAPACITOR, Tantalum, 1.0 $\mu\text{F}$ , 35V, $\pm 10\%$		26					

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REFERENCE SUBCARRIER PROCESSOR NO. 1 PRINTED WIRING ASSEMBLY (MODULE 203)				CATALOG NO. 1364687	SHEET 2 OF 5 NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
67	037-472		C31,49,57,65	CAPACITOR, Tantalum, 4.7μF, 10V, ±10%		4						
68	037-745		C50	CAPACITOR, Tantalum, 47μF, 6V, ±10%		1						
69	037-172		C34	CAPACITOR, Tantalum, 1.0μF, 40V, N. P. ±20%		1						
70	037-584		C32	CAPACITOR, Tantalum, 90μF, 10V, +30%, -15%, N. P.		1						
71	037-728		C35	CAPACITOR, Tantalum, 6.8μF, 6V, ±10%		1						
73	038-052		C55	CAPACITOR, Variable, GL 8-12pF, 750V		1						
76	041-430		R67	RESISTOR, Fixed, 1.5k ohm, 1/4W, ±5%		1						
77	041-503		R73	RESISTOR, Fixed, 270 ohm, 1/4W, ±5%		1						
78	041-419		R75,80,95,97,99,106,107	RESISTOR, Fixed, 100 ohm, 1/4W, ±5%		7						
79	041-425		R83,84,85,102,110	RESISTOR, Fixed, 47 ohm, 1/4W, ±5%		5						
80	041-435		R23,25,26,29,30,31,45,48	RESISTOR, Fixed, 150 ohm, 1/4W, ±5%		8						
81	041-482		R72	RESISTOR, Fixed, 12k ohm, 1/4W, ±5%		1						
82	041-496		R82	RESISTOR, Fixed, 10 ohm, 1/4W, ±5%		1						
83	041-507		R112	RESISTOR, Fixed, 5.6k ohm, 1/4W, ±5%		1						
84	041-511		R3,79	RESISTOR, Fixed, 3.9k ohm, 1/4W, ±5%		2						
85	041-414		R89	RESISTOR, Fixed, 2.2k ohm, 1/4W, ±5%		1						
86	041-538		R111	RESISTOR, Fixed, 6.2k ohm, 1/4W, ±5%		1						
87	041-560		R76	RESISTOR, Fixed, 2k ohm, 1/4W, ±5%		1						
88	041-584		R52,104,105	RESISTOR, Fixed, 4.3k ohm, 1/4W, ±5%		3						
90	041-740		R24,32	RESISTOR, Fixed, 200 ohm, 1/4W, ±5%		2						
91	041-743		R15,47	RESISTOR, Fixed, 430 ohm, 1/4W, ±5%		2						
92	041-748		R96,98	RESISTOR, Fixed, 11k ohm, 1/4W, ±5%		2						
93	041-550		R68,74	RESISTOR, Fixed, 3k ohm, 1/4W, ±5%		2						
94	041-795		R66	RESISTOR, Fixed, 12 megohm, 1/4W, ±5%		1						
97	041-404		R57	RESISTOR, Fixed, 510 ohm, 1/2W, ±5%		1						
98	041-013		R49	RESISTOR, Fixed, 4.7k ohm, 1/2W, ±5%		1						
99	041-015		R54	RESISTOR, Fixed, 27k ohm, 1/2W, ±5%		1						
100	041-256		R109	RESISTOR, Fixed, 560 ohm, 1/2W, ±5%		1						
101	041-282		R51	RESISTOR, Fixed, 150 ohm, 1/2W, ±5%		1						
102	041-343		R18	RESISTOR, Fixed, 680 ohm, 1/2W, ±5%		1						
103	041-362		R81	RESISTOR, Fixed, 360 ohm, 1/2W, ±5%		1						
104	041-405		R6,28	RESISTOR, Fixed, 1.2k ohm, 1/2W, ±5%		2						
105	041-462		R100,101	RESISTOR, Fixed, 1.3k ohm, 1/2W, ±5%		2						
106	041-478		R50	RESISTOR, Fixed, 1.1k ohm, 1/2W, ±5%		1						
107	041-525		R71	RESISTOR, Fixed, 3.6k ohm, 1/2W, ±5%		1						
108	041-245		R86	RESISTOR, Fixed, 1k ohm, 1/2w, ±5%		1						
109	044-454		R7,9	RESISTOR, Variable, wirewound, 200 ohm, 1W, ±5%		2						
110	044-802		R113	RESISTOR, Variable Ceramic Metal Film, 20 ohm, 1W, ±20%		1						
114	062-512		R46	RESISTOR, Metal Film, 80.6k ohm, 1/8W, ±1%		1						
115	042-763		R40	RESISTOR, Metal Film, 200 ohm, 1/8W, ±1%		1						
116	057-513		R19,20	RESISTOR, Metal Film, 1k ohm, 1/8W, ±1%		2						

X1364687C

**ACCESSORIES**  
**MODULES 203-4, 222, 224-5**



REFERENCE SUBCARRIER PROCESSOR NO. 1 PRINTED WIRING ASSEMBLY (MODULE 203)					CATALOG NO. 1364687	SHEET 3 OF 5 NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
117	062-517		R77	RESISTOR, Fixed, 1.3kohm, 1/8W, ±1%		1					
118	062-516		R21	RESISTOR, Fixed, 249 ohm, 1/8W ±1%		1					
119	062-515		R1,103	RESISTOR, Fixed, 499 ohm, 1/8W, ±1%		2					
120	057-203		R42	RESISTOR, Fixed, 10k ohm, 1/8W, ±1%		1					
121	062-044		R38	RESISTOR, Fixed, 402 ohm, 1/8W, ±1%		1					
122	057-947		R2	RESISTOR, Fixed, 1.05k ohm, 1/8W, ±1%		1					
123	062-436		R55	RESISTOR, Fixed, 107 ohm, 1/8W, ±1%		1					
124	062-511		R17	RESISTOR, Fixed, 549 ohm, 1/8W, ±1%		1					
125	057-228		R35	RESISTOR, Fixed, 1.5k ohm, 1/8W, ±1%		1					
126	062-545		R33	RESISTOR, Fixed, 4.53k ohm, 1/8W, ±1%		1					
127	062-513		R39	RESISTOR, Fixed, 5.76k ohm, 1/8W, ±1%		1					
128	062-510		R44	RESISTOR, Fixed, 66.5k ohm, 1/8W, ±1%		1					
129	062-427		R16	RESISTOR, Fixed, 10.7k ohm, 1/8W, ±1%		1					
130	057-512		R78,94	RESISTOR, Fixed, 536 ohm, 1/8W, ±1%		2					
131	062-420		R65	RESISTOR, Fixed, 4.75k ohm, 1/8W, ±1%		1					
132	057-197		R108	RESISTOR, Fixed, 511 ohm, 1/8W, ±1%		1					
133	062-509		R92	RESISTOR, Fixed, 5.23k ohm, 1/8W, ±1%		1					
134	057-778		R115	RESISTOR, Fixed, 6.81k ohm, 1/8W, ±1%		1					
135	062-508		R90,91	RESISTOR, Fixed, 13.3k ohm, 1/8W, ±1%		2					
136	062-507		R4	RESISTOR, Fixed, 11k ohm, 1/8W, ±1%		1					
137	042-780		R11,36	RESISTOR, Fixed, 100k ohm, 1/8W, ±1%		2					
138	062-506		R64	RESISTOR, Fixed, 1.24k ohm, 1/8W, ±1%		1					
139	057-675		R70	RESISTOR, Fixed, 301 ohm, 1/4W, ±1%		1					
140	057-759		R60	RESISTOR, Fixed, 3.57k ohm, 1/4W, ±1%		1					
141	062-390		R114	RESISTOR, Fixed, 6.65k ohm, 1/4W, ±1%		1					
142	057-384		R61	RESISTOR, Fixed, 2.67k ohm, 1/4W, ±1%		1					
143	048-258		R10	RESISTOR, Fixed, 1.69k ohm, 1/4W, ±1%		1					
144	048-727		R5,27	RESISTOR, Fixed, 499 ohm, 1/4W, ±1%		2					
145	057-175		R37	RESISTOR, Fixed, 1.91k ohm, 1/4W, ±1%		1					
146	057-424		R8	RESISTOR, Fixed, 1.82k ohm, 1/4W, ±1%		1					
147	057-517		R43	RESISTOR, Fixed, 2.26k ohm, 1/4W, ±1%		1					

X1364687C

REFERENCE SUBCARRIER PROCESSOR NO. 1 PRINTED WIRING ASSEMBLY (MODULE 203)				CATALOG NO. 1364687	SHEET 4 OF 5 NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
148	057-878		R12	RESISTOR, Fixed, 1.78k ohm, 1/4W, ±1%		1					
149	057-908		R13,14	RESISTOR, Fixed, 71.5 ohm, 1/4W, ±1%		2					
150	057-912		R22,34	RESISTOR, Fixed, 1.65k ohm, 1/4W, ±1%		2					
151	057-914		R93	RESISTOR, Fixed, 2.87k ohm, 1/4W, ±1%		1					
152	048-860		R56	RESISTOR, Fixed, 1.3k ohm, 1/4W, ±1%		1					
155	056-216		C17,24	CAPACITOR, Mica, 500pF, 500V, ±1%		2					
156	056-217		C38,39	CAPACITOR, Mica, 265pF, 500V, ±1%		2					
157	056-204		C60	CAPACITOR, Mica, 16pF, 500V, ±.5pF		1					
161	057-412		R87	RESISTOR, Fixed, 2.26k ohm, 1/2W, ±1%		1					
162	057-769		R62,63	RESISTOR, Fixed, 3.24k ohm, 1/2W, ±1%		2					
163	048-404		R88	RESISTOR, Fixed, 825 ohm, 1/2W, ±1%		1					
164	048-131		R53	RESISTOR, Fixed, 1.21k ohm, 1/2W, ±1%		1					
168	120-278		S1	SWITCH TOGGLE, SPDT		1					
169	014-712		Q2,3,5,8,16,23,24,29,30	SPACER, Transistor, 6 pin		9					
170	280-130		Q1,4,7,9,11-14,17-22,25-28,31	SPACER, Transistor TO18		19					
171	280-173		A5	SPACER, Transistor, 8 pin		1					
172	280-998		Q6,10,15	SPACER, Transistor TO 5		3					
173	540-005		L3,4	INDUCTOR, 47μH, ±5%		2					
174	540-009		L1,7	INDUCTOR, 2.2μH, ±10%		2					
175	540-015		L2,5,6,8,14,15,16,17,21	INDUCTOR, 1000μH, ±5%		9					
176	540-007		L13	INDUCTOR, 470μH, ±5%		1					
177	540-014		L12	INDUCTOR, 15μH, ±10%		1					
178	051-594		L18,20	INDUCTOR, 17.7μH, ±1-1/4%		2					
179	051-595		L19	INDUCTOR, 28.4μH, ±1-1/4%		1					
182	541-069		L9,11	INDUCTOR, Variable, 4.7μH, ±20%		2					
183	541-076		L10	INDUCTOR, Variable, 1.5μH, ±20%		1					
186	586-490	MC1213L	A4	INTEGRATED CIRCUIT		1					
187	586-489	MC1204L	A1-3	INTEGRATED CIRCUIT		3					
188	586-269	F741	A5	INTEGRATED CIRCUIT		1					
191	560-094		T1,2	TRANSFORMER		2					
193	103307-01		C55	STANDOFF		4					
195	1380188-01		DL1	DELAY LINE, 100nSEC, 500 ohm		1					
196	1380187-01		DL2,3	DELAY LINE, 15nSEC, 500 ohm		2					
199	173-620		E1-17	TERMINAL TURRET		17					
202	062-505		R58	RESISTOR, Fixed, 2.26k ohm, 1/8W, ±1%		1					
203	062-379		R59,60	RESISTOR, Fixed, 2k ohm, 1/8W, ±1%		2					
204	062-504		R41	RESISTOR, Fixed, 7.87k ohm, 1/8W, ±1%		1					
206	602-012		J9,10,11,12	CONNECTOR, Plug, red		4					

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10-682

REFERENCE SUBCARRIER PROCESSOR NO. 1 PRINTED WIRING ASSEMBLY (MODULE 203)					CATALOG NO. 1364687		SHEET 5 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
207	143-981		J9-A,B,C, J10-A,B,J11-A,B,J12-A,B	JACK, Printed Circuit		9							
209	139-021		J3,6,8	CONNECTOR RF		3							
210	501-715		J3,6	WASHER, Shoulder, nylon		4							
211	501-711		J3,6	WASHER, Flat, brass, .040 thk		2							
212	501-712		J8	WASHER, Flat, brass, .032 thk		1							

X1364687C

10-683/684

REFERENCE SUBCARRIER PROCESSOR II PRINTED WIRING ASSEMBLY (MODULE 204)					CATALOG NO. 1364790	SHEET 1 OF 3					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364792			SCHEMATIC		REF					
4	1368188-50			LABEL, Modules		1					
5	1360036-01		Ref: K1, 2	MOUNTING PAD, Relay		2					
6	1363789-01			FRAME, Module		1					
7	1363791-01			HANDLE, Printed Wiring Board		1					
8	1365046-01			COVER, Module		2					
9	1368266-01			OVERLAY		1					
11	473-325			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .312		1					
12	471-325			SCREW, Cross-Recess, flat head, 4-40 x .188		8					
13	473-324			SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .250		4					
15	501-008			WASHER, Plain, #4		4					
18	501-711			WASHER, Flat, brass, .040 thk		3					
19	501-712			WASHER, Flat, brass, .032 thk		1					
20	501-715			WASHER, Shoulder, nylon		6					
22	103307-02		Ref: DL1, 2	SPACER FIBER, .125 Inch		8					
24	013-101		CR1, 2	DIODE		2					
25	013-678		CR3, 5	DIODE		2					
26	013-723	FD-777	CR4	DIODE		1					
27	581-040	MV-840	CR6	DIODE, Variable Voltage		1					
30	014-247		Q2, 5, 15	TRANSISTOR		3					
31	014-505		Q1, 3, 12	TRANSISTOR		3					
32	014-506		Q4, 7, 8, 9, 11, 13	TRANSISTOR		6					
33	014-712		Ref: Q6, 10, 14	PAD, Transistor, dual		3					
34	041-851	MD2369B	Q6, 10, 14	TRANSISTOR, Dual		3					
36	020-467		K1, 2	RELAY, DPDT		2					
38	034-312		C3, 21	CAPACITOR, Mica, 6200pF, 300V, 1%		2					
39	056-297		C5	CAPACITOR, Mica, 4700pF, 500V, 1%		1					
40	056-217		C12, 13, 45, 46	CAPACITOR, Mica, 265pF, 500V, 1%		4					
41	034-266		C19	CAPACITOR, Mica, 1500pF, 500V, 1%		1					
42	034-222		C51	CAPACITOR, Mica, 100pF, 500V, ±1%		1					
43	034-297		C29, 30	CAPACITOR, Mica, 180pF, 500V, ±1%		2					
44	064-007	IT47RJ	C44	CAPACITOR, Ceramic, 47pF, 50V		1					
45	035-893		C2, 4, 6, 11, 14-16, 18, 20, 47, 48, 50	CAPACITOR, Mylar, .1μF, 50V, 5%		12					
46	035-734		C1, 17, 24-27, 31, 34-43, 49, 52-57	CAPACITOR, Mylar, .01μF, 50V, 5%		24					
48	037-186		C22	CAPACITOR, Tantalum, 120μF, 10V, 10%		1					
49	037-472		C28	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		1					
50	037-728		C33	CAPACITOR, Tantalum, 6.8μF, 6V, 10%		1					
51	037-740		C10, 23	CAPACITOR, Tantalum, 33μF, 10V, 10%		2					
52	037-745		C8, 9	CAPACITOR, Tantalum, 47μF, 6V, 10%		2					
53	037-749		C7, 32	CAPACITOR, Tantalum, 68μF, 15V, 10%		2					
55	041-003		R26, 34, 50, 60, 64, 90	RESISTOR, Fixed, 100 ohm, 1/2W, 5%		6					
56	041-004		R97	RESISTOR, Fixed, 220 ohm, 1/2W, 5%		1					
57	041-007		R44	RESISTOR, Fixed, 750 ohm, 1/2W, 5%		1					
58	041-010		R12, 33, 92	RESISTOR, Fixed, 2k ohm, 1/2W, 5%		3					

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REFERENCE SUBCARRIER PROCESSOR NO. 2 PRINTED WIRING ASSEMBLY (MODULE 204)				CATALOG NO. 1364790	SHEET 2 OF 3 NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
59	041-013		R75	RESISTOR, Fixed, 4.7k ohm, 1/2W, 5%		1					
60	041-014		R31	RESISTOR, Fixed, 10k ohm, 1/2W, 5%		1					
61	041-023		R77	RESISTOR, Fixed, 100k ohm, 1/2W, 5%		1					
62	041-239		R70,74	RESISTOR, Fixed, 2.2k ohm, 1/2W, 5%		2					
63	041-245		R5,38,47,49,52,56,65,76,93	RESISTOR, Fixed, 1k ohm, 1/2W, 5%		9					
64	041-254		R48,63	RESISTOR, Fixed, 15k ohm, 1/2W, 5%		2					
65	041-256		R42	RESISTOR, Fixed, 560 ohm, 1/2W, 5%		1					
66	041-282		R87	RESISTOR, Fixed, 150 ohm, 1/2W, 5%		1					
68	041-309		R10,36	RESISTOR, Fixed, 8.2k ohm, 1/2W, 5%		2					
69	041-329		R19,82,86	RESISTOR, Fixed, 330 ohm, 1/2W, 5%		3					
70	041-330		R13	RESISTOR, Fixed, 6.8k ohm, 1/2W, 5%		1					
71	041-331		R9	RESISTOR, Fixed, 3.3k ohm, 1/2W, 5%		1					
72	041-334		R95,96	RESISTOR, Fixed, 200 ohm, 1/2W, 5%		2					
73	041-362		R41	RESISTOR, Fixed, 360 ohm, 1/2W, 5%		1					
74	041-404		R20,32,68,84	RESISTOR, Fixed, 510 ohm, 1/2W, 5%		4					
75	041-406		R53,54	RESISTOR, Fixed, 22k ohm, 1/4W, 5%		2					
76	041-418		R43	RESISTOR, Fixed, 22 ohm, 1/4W, 5%		1					
77	041-419		R15,21	RESISTOR, Fixed, 100 ohm, 1/4W, 5%		2					
78	041-489		R45	RESISTOR, Fixed, 33 ohm, 1/2W, 5%		1					
79	041-560		R23,24,25	RESISTOR, Fixed, 2k ohm, 1/4W, 5%		3					
80	041-528		R59,62	RESISTOR, Fixed, 300 ohm, 1/2W, 5%		2					
82	048-129		R57	RESISTOR, Fixed, 562 ohm, 1/2W, 1%		1					
83	048-618		R79,80	RESISTOR, Fixed, 2k ohm, 1/4W, 1%		2					
84	048-625		R28,71,83	RESISTOR, Fixed, 150 ohm, 1/4W, 1%		3					
85	048-727		R61,73	RESISTOR, Fixed, 499 ohm, 1/4W, 1%		2					
88	057-224		R85	RESISTOR, Fixed, 301 ohm, 1/8W, 1%		1					
89	057-267		R16,94	RESISTOR, Fixed, 610 ohm, 1/2W, 1%		2					
90	057-607		R29	RESISTOR, Fixed, 3.83k ohm, 1/8W, 1%		1					
91	057-651		R6	RESISTOR, Fixed, 21.5k ohm, 1/8W, 1%		1					
92	057-652		R4	RESISTOR, Fixed, 33.2k ohm, 1/8W, 1%		1					
93	057-828		R30	RESISTOR, Fixed, 1.050k ohm, 1/8W, 1%		1					
95	062-258		R1,69	RESISTOR, Fixed, 1.62k ohm, 1/4W, 1%		2					
96	062-285		R27	RESISTOR, Fixed, 243 ohm, 1/4W, 1%		1					
97	062-356		R22	RESISTOR, Fixed, 22.6k ohm, 1/8W, 1%		1					
98	062-379		R2,3,7,8	RESISTOR, Fixed, 2k ohm, 1/8W, 1%		4					
99	026-474		R17,91	RESISTOR, Fixed, 73,2 ohm, 1/8W, 1%		2					
100	062-479		R46,55	RESISTOR, Fixed, 226 ohm, 1/8W, 1%		2					
101	062-515		R18,58,78	RESISTOR, Fixed, 499 ohm, 1/8W, 1%		3					
102	062-517		R11,14,81	RESISTOR, Fixed, 1.3k ohm, 1/8W, 1%		3					
103	062-574		R39	RESISTOR, Fixed, 64.9 ohm, 1/4W, 1%		1					

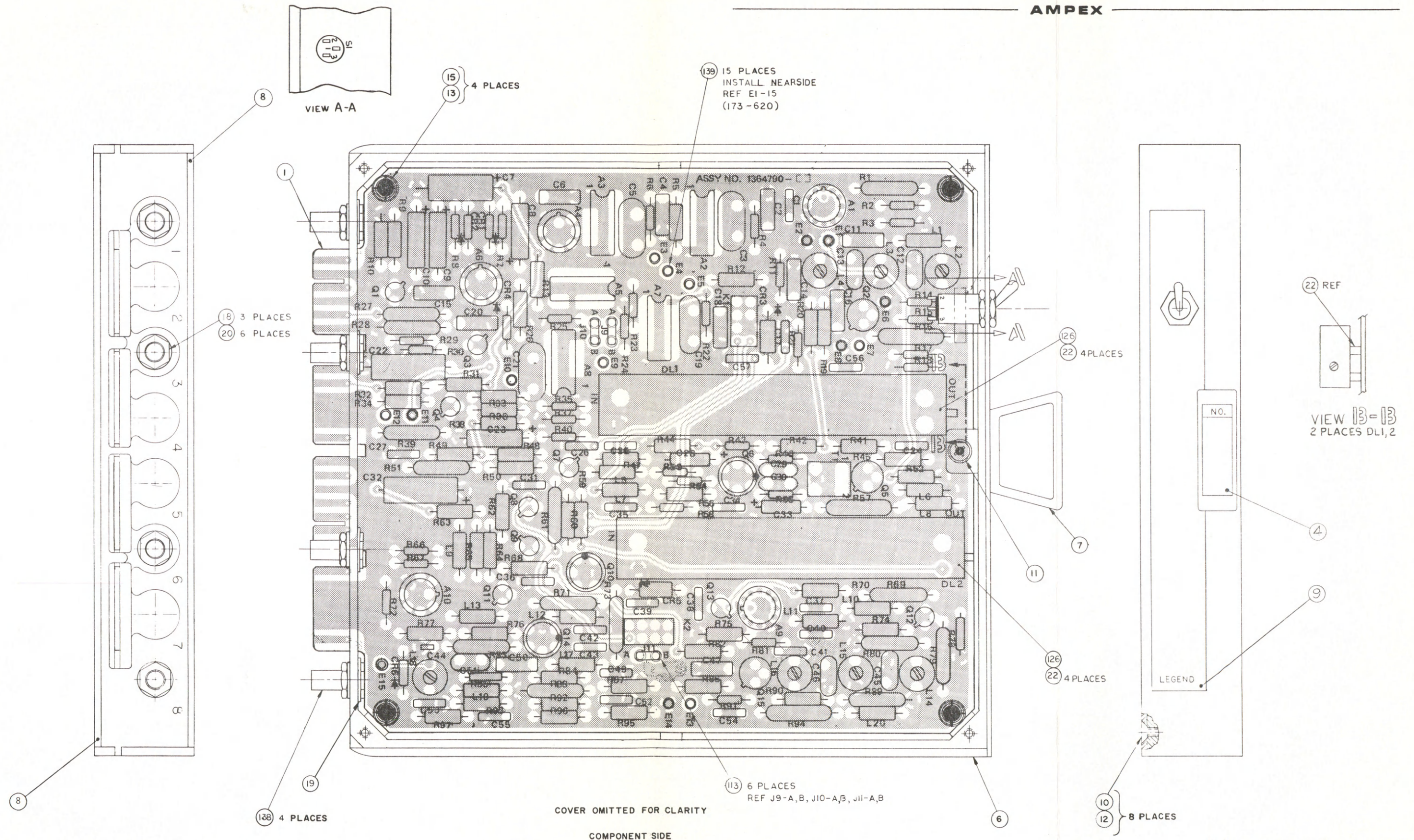
X1364790G

REFERENCE SUBCARRIER PROCESSOR NO. 2 PRINTED WIRING ASSEMBLY (MODULE 204)				CATALOG NO. 1364790		SHEET 3 OF 3 NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
104	062-572		R35	RESISTOR, Fixed, 23.2k ohm, 1/8W, 1%		1					
105	062-573		R66	RESISTOR, Fixed, 24.3k ohm, 1/8W, 1%		1					
106	062-570		R67	RESISTOR, Fixed, 75k ohm, 1/8W, 1%		1					
107	062-571		R72	RESISTOR, Fixed, 16.2k ohm, 1/8W, 1%		1					
108	057-513		R37,40	RESISTOR, Fixed, 1k ohm, 1/8W, 1%		2					
109	048-261		R51	RESISTOR, Fixed, 121 ohm, 1/4W, 1%		1					
110	048-860		R89	RESISTOR, Fixed, 1.3k ohm, 1/4W, 1%		1					
111	057-878		R88	RESISTOR, Fixed, 1.78k ohm, 1/4W, 1%		1					
112	120-278		S1	SWITCH, SPDT		1					
113	143-981		J9-A,B, J10-A,B, J11-A, B	JACK, Printed Circuit, closed entry		6					
115	280-130		Q1,3,4,7-9, 11-13	PAD, Transistor, TO-18		9					
116	280-173		A4,6,10	PAD, Integrated Circuit, 8 pin		3					
117	280-998		Q2,5,15	PAD, Transistor, TO-5		3					
119	540-015		L1,5-13,17, 19,20	INDUCTOR, Fixed, 1000μH, ±5%		13					
121	541-069		L2,4,14,16	INDUCTOR, Variable, 4.7μH, ±20%		4					
122	541-070		L18	INDUCTOR, Variable, 22μH, ±20%		1					
123	541-076		L3,15	INDUCTOR, Variable, 1.5μH, ±20%		2					
125	560-094		T1	TRANSFORMER, Coupling		1					
126	570-058		DL1,2	DELAY LINE, 250 nsec, 500 ohm		2					
128	586-201		A1,9	PAD, Integrated Circuit, 12 pin		2					
129	586-309	UL9601	A2,3,7,8	CIRCUIT, Integrated		4					
130	586-269	UA741C	A10	CIRCUIT, Integrated		1					
131	586-335	LM306H	A4,6	CIRCUIT, Integrated		2					
132	586-446	CA3049	A1,9	CIRCUIT, Integrated		2					
133	586-511	MC415P	A5	CIRCUIT, Integrated		1					
135	602-012		J9-11	PLUG, Shorting, red		3					
138	139-021		J1,3,6,8	CONNECTOR, Coax		4					
139	173-620		E1-15	TERMINAL STUD, Turret		15					

X1364790G

10-687/688



**AMPEX**

Reference Subcarrier Processor No. 2  
Printed Wiring Assembly (Module 204)  
Dwg. No. 1364790



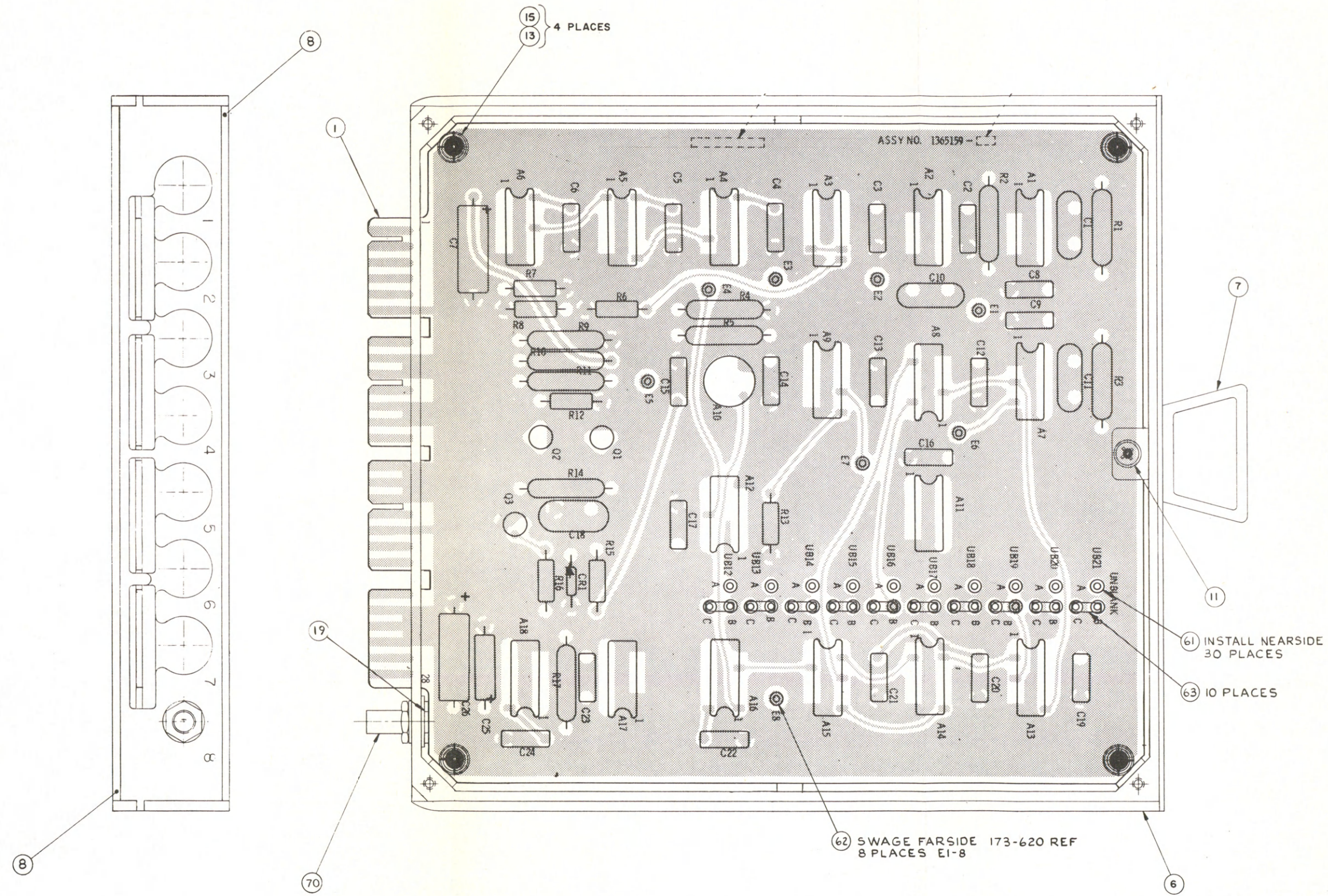
VERTICAL INTERVAL TEST SIGNAL PRINTED WIRING ASSEMBLY (MODULE 222)					CATALOG NO.	1365159	SHEET 1 OF 1							
							NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
3	1365161	FD777	CR1			REF								
6	1363789-01				FRAME, Module		1							
7	1363791-01				HANDLE, Printed Wiring Board		1							
8	1365046-01				COVER, Module		2							
11	473-325				SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .312		1							
12	471-325				SCREW, Cross-Recess, flat head, 4-40 x .188		8							
13	473-324				SCREW, Assembly Washer, cross-recess, pan head, 4-40 x .250		4							
15	501-008				WASHER, Plain #4		4							
19	501-712				WASHER, Flat, brass, .032 thk		1							
22	013-723				Q2	DIODE, Silicon		1						
24	014-505				Q1,3	TRANSISTOR, PNP		1						
25	014-506				C11	TRANSISTOR, NPN		2						
27	034-363				C10	CAPACITOR, Mica, 2000pF, 500V,1%		1						
28	034-730				C18	CAPACITOR, Mica, 1800pF,500V,1%		1						
29	034-952				C1	CAPACITOR, Mica, 6200pF,300V,5%		1						
30	056-020				C2-6,8,9,12-17,19-22,24	CAPACITOR, Mica, 1100pF,500V,1%		1						
33	035-893				C23	CAPACITOR, Mylar, .1μF,50V,5%		18						
34	035-853				C7,26	CAPACITOR, Mylar, .056μF,50V,5%		1						
35	037-746				C25	CAPACITOR, Tantalum, 47μF,20V,10%		2						
36	037-740				R16	CAPACITOR, Tantalum,33μF,10V,10%		1						
38	041-245				R12	RESISTOR, Fixed, 1k ohm,1/2W,5%		1						
39	041-357				R15	RESISTOR, Fixed,5.6k ohm,1/2W,5%		1						
40	041-420				R6-8,13	RESISTOR, Fixed,12k ohm,1/2W,5%		1						
51	041-010				R4,14	RESISTOR, Fxied, 2k ohm,1/2W,5%		4						
44	048-142				R9	RESISTOR, Variable, 1.82k ohm,1/2W,1%		2						
45	048-405				R11	RESISTOR, Variable, 1.5k ohm,1/2W,1%		1						
46	048-703				R2,3,17	RESISTOR, Variable, 1.3k ohm,1/2W,1%		1						
47	048-818				R5	RESISTOR, Variable, 20.5k ohm,1/2W,1%		3						
48	062-384				R10	RESISTOR,Variable, 2.61k ohm,1/2W,1%		1						
49	057-549				R1	RESISTOR, Variable, 6.81k ohm,1/2W,1%		1						
50	057-250				A18	RESISTOR, Variable, 23.7k ohm,1/2W,1%		1						
52	586-097			MC832P	A5,8,12,16	INTEGRATED CIRCUIT		1						
53	586-153			MC846P	A1,2,7,17	INTEGRATED CIRCUIT		4						
54	586-309			UL9601	A10	INTEGRATED CIRCUIT		4						
55	586-335			LM306H	A13-15	INTEGRATED CIRCUIT		1						
56	586-450			DM8570N	A3-4,6,9	INTEGRATED CIRCUIT		3						
57	586-455			MC3000L	A11	INTEGRATED CIRCUIT		4						
58	586-517			MC1804P	UB12-21	INTEGRATED CIRCUIT		1						
61	143-981			TO-18	E1-8	JACK, P.C. Closed Entry		30						
62	173-620					TERMINAL, Turret		8						
63	602-013					PLUG, Shorting, blue		10						
66	280-130					Q1-3	PAD, Transistor		3					
67	280-173					A10	PAD, Integrated Circuit, 8 pin		1					
70	139-021				J8	CONNECTOR, RF		1						

X1365159A

10-691/692



AMPEX



Vertical Interval Test Signal Printed Wiring Assembly  
(Module 222) Dwg. No. 1365159



VELOCITY DETECTOR PRINTED WIRING ASSEMBLY (MODULE 224)				CATALOG NO. X1364726		SHEET 1 OF 6						
						NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
3	1364728			SCHEMATIC		REF						
14	013-655	FD-600	CR2,9-11	DIODE		4						
15	013-677		CR3-8,12-22	DIODE		17						
16	013-678		CR1	DIODE		1						
17	013-838	FSA 1529	A15,28	DIODE, Bridge		2						
19	014-505		Q2,3,5,7,13,14,17,21	TRANSISTOR		8						
20	014-506		Q6,10,11,15,22,24-28	TRANSISTOR		10						
21	014-581		Q4,8,9	TRANSISTOR		3						
22	014-600		Q12,19,20,23	TRANSISTOR		4						
23	014-697		Q1	TRANSISTOR, Dual		1						
24	014-850	MD918A	Q16	TRANSISTOR, Dual		1						
25	014-859	2N4208	Q13	TRANSISTOR		1						
28	020-515		K1	RELAY		1						
29	020-407		K1	PAD, Relay		1						
32	030-963		C1,5,7,10,15,17-19,22-24,27-30,33-35,37,44,45,48,51,56,58,62,65,69-71	CAPACITOR, Ceramic, .1μF, 100V, ±10%		30						
33	034-199		C64	CAPACITOR, Mica, 300PF, 500V, 5%		1						
34	034-208		C31,32	CAPACITOR, Mica, 30PF, 500V, 5%		2						
35	034-213		C9	CAPACITOR, Mica, 150PF, 500V, 5%		1						
36	034-240		C4	CAPACITOR, Mica, 220PF, 500V, 5%		1						
37	034-532		C38	CAPACITOR, Mica, 1PF, 500V, ±0.5PF		1						
38	034-929		C59,67	CAPACITOR, Mica, 560PF, 500V, 5%		2						
39	034-935		C61	CAPACITOR, Mica, 240PF, 500V, 5%		1						
40	034-970		C26	CAPACITOR, Mica, 1500PF, 500V, 5%		1						
41	035-598		C54	CAPACITOR, Mylar, .047μF, 50V, 5%		1						
42	037-164		C36,53	CAPACITOR, Tantalum, 1μF, 35V, 10%		2						
43	037-246		C39	CAPACITOR, Tantalum, 180μF, 6V, 10%		1						
44	037-383		C42	CAPACITOR, Tantalum, 5μF, 15V, -15 +75%		1						
45	037-472		C43	CAPACITOR, Tantalum, 4.7μF, 10V, 10%		1						
46	037-726		C2,3,6,8,11,12,14,20,21,25,40,47,50,52,63,66	CAPACITOR, Tantalum, 3.3μF, 15V, 10%		16						
47	037-740		C41	CAPACITOR, Tantalum, 33μF, 10V		1						
48	037-746		C13,68	CAPACITOR, Tantalum, 47μF, 20V, 10%		2						

X1364726C

VELOCITY DETECTOR PRINTED WIRING ASSEMBLY (MODULE 224)				CATALOG NO. X1364726		SHEET 2 OF 6					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
49	037-991		C57,60	CAPACITOR, Tantalum, 22 $\mu$ F, 15V, 10%		2					
50	055-135		C49	CAPACITOR, Mylar, .0027 $\mu$ F, 50V, 5%		1					
51	056-054		C55	CAPACITOR, Mica, 5PF, 500V, $\pm$ 0.5PF		1					
52	056-449		C16,46	CAPACITOR, Mica, 1000PF, 500V, 1/2%		2					
53	041-245		R25,66,97,115,145,163	RESISTOR, 1K ohm, 1/2W, 5%		6					
54	041-396		R19,27,151	RESISTOR, 220 ohm, 1/4W, 5%		3					
55	041-408		R16,125	RESISTOR, 10K ohm, 1/4W, 5%		2					
56	041-410		R43,154	RESISTOR, 1K ohm, 1/4W, 5%		2					
57	041-411		R112,142,159	RESISTOR, 47K ohm, 1/4W, 5%		3					
58	041-412		R108,143,144,152,153	RESISTOR, 4.7K ohm, 1/4W, 5%		5					
59	041-413		R135	RESISTOR, 6.8K ohm, 1/4W, 5%		1					
60	041-414		R99,128,155,157,168	RESISTOR, 2.2K ohm, 1/4W, 5%		5					
61	041-419		R12,13,23,39,40,57,58,80,85,91	RESISTOR, 100 ohm, 1/4W, 5%		10					
62	041-442		R42	RESISTOR, 2.7K ohm, 1/4W, 5%		1					
63	041-425		R4,9,10,31,53,56,67,101	RESISTOR, 47 ohm, 1/4W, 5%		8					
64	041-427		R124,134	RESISTOR, 330 ohm, 1/4W, 5%		2					
65	041-428		R22,77,78	RESISTOR, 470 ohm, 1/4W, 5%		3					
66	041-430		R130,136,156	RESISTOR, 1.5K ohm, 1/4W, 5%		3					
67	041-435		R96,114,158,164	RESISTOR, 150 ohm, 1/4W, 5%		4					
68	041-437		R79	RESISTOR, 1.6K ohm, 1/4W, 5%		1					
69	041-440		R120,121	RESISTOR, Metal Film, 1.2K ohm, 1/4W, 5%		2					
70	041-482		R84,86,111	RESISTOR, 12K ohm, 1/4W, 5%		3					
71	041-483		R138	RESISTOR, 27K ohm, 1/4W, 5%		1					
72	041-503		R117,118,127,147,166	RESISTOR, 270 ohm, 1/4W, 5%		5					
73	041-504		R93	RESISTOR, 510 ohm, 1/4W, 5%		1					
74	041-505		R65	RESISTOR, 620 ohm, 1/4W, 5%		1					
75	041-560		R100	RESISTOR, 2K ohm, 1/4W, 5%		1					
76	041-507		R110	RESISTOR, 5.6K ohm, 1/4W, 5%		1					
77	041-511		R98	RESISTOR, 3.9K ohm, 1/4W, 5%		1					
78	041-519		R82	RESISTOR, 56K ohm, 1/4W, 5%		1					
79	041-520		R3	RESISTOR, 7.5K ohm, 1/4W, 5%		1					

X1364726C

VELOCITY DETECTOR PRINTED WIRING ASSEMBLY (MODULE 224)				CATALOG NO. X1364726		SHEET 3 OF 6					
						NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
80.	041-561		R162	RESISTOR, 5.1K ohm, 1/4W, 5%		1					
81	041-568		R60	RESISTOR, 4.7 megohm, 1/4W, 5%		1					
82	041-570		R45	RESISTOR, 2.4K ohm, 1/4W, 5%		1					
83	041-740		R106,133,149,167,169	RESISTOR, 200 ohm, 1/4W, 5%		5					
84	041-743		R102,103	RESISTOR, 430 ohm, 1/4W, 5%		2					
85	041-775		R75	RESISTOR, 1.6 megohm, 1/4W, 5%		1					
86	041-801		R76,88	RESISTOR, 22 megohm, 1/4W, 5%		2					
87	041-973		R104	RESISTOR, 1.1K ohm, 1/4W, 5%		1					
88	042-387		R109,123	RESISTOR, Metal Film, 56.2K ohm, 1/8W, 1%		2					
89	042-773		R113,116,146,165	RESISTOR, Metal Film, 12.1K ohm, 1/8W, 1%		4					
90	048-142		R5	RESISTOR, Metal Film, 1.82K ohm, 1/2W, 1%		1					
91	048-389		R81	RESISTOR, Metal Film, 562 ohm, 1/8W, 1%		1					
92	048-588		R52	RESISTOR, Metal Film, 3.01K ohm, 1/8W, 1%		1					
93	048-655		R89	RESISTOR, Metal Film, 2.37K ohm, 1/4W, 1%		1					
94	057-198		R94	RESISTOR, 2.21K ohm, 1/8W, 1%		1					
95	057-203		R59	RESISTOR, Metal Film, 10K ohm, 1/8W, 1%		1					
96	057-226		R139,161	RESISTOR, Metal Film, 243 ohm, 1/8W, 1%		2					
97	041-651		R28	RESISTOR, 33 ohm, 1/4W, 5%		1					
98	057-513		R63,131	RESISTOR, Metal Film, 1K ohm, 1/8W, 1%		2					
99	057-514		R71	RESISTOR, Metal Film, 5.62K ohm, 1/8W, 1%		1					
100	057-498		R64	RESISTOR, Metal Film, 866 ohm, 1/2W, 1%		1					
101	057-605		R148,150	RESISTOR, Metal Film, 90.9 ohm, 1/8W, 1%		2					
102	057-607		R68	RESISTOR, Metal Film, 3.83K ohm, 1/8W, 1%		1					
103	057-622		R70	RESISTOR, Metal Film, 1.62K ohm, 1/8W, 1%		1					
104	057-778		R72	RESISTOR, Metal Film, 6.81K ohm, 1/8W, 1%		1					
105	057-904		R11,32	RESISTOR, Metal Film, 866 ohm, 1/8W, 1%		2					
106	058-516		R83	RESISTOR, Variable, 50 ohm, 1/2W		1					

X1364726C



VELOCITY DETECTOR PRINTED WIRING ASSEMBLY (MODULE 224)					CATALOG NO. X1364726	SHEET 4 OF 6					
					NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
107	058-565		R87	RESISTOR, Variable, 10K ohm, 1/2W		1					
108	058-601		R170	RESISTOR, Variable, 1K ohm, 1/2W		1					
109	058-612		R18,26	RESISTOR, Variable, 200 ohm, 1/2W		2					
110	062-044		R8,55	RESISTOR, Metal Film, 402 ohm, 1/8W, 1%		2					
111	062-290		R41	RESISTOR, Metal Film, 2.37K ohm, 1/8W, 1%		1					
112	062-379		R6,24,73,62	RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		4					
113	062-422		R50	RESISTOR, Metal Film, 3.16K ohm, 1/8W, 1%		1					
114	062-427		R37	RESISTOR, Metal Film, 10.7K ohm, 1/8W, 1%		1					
115	062-453		R48	RESISTOR, Metal Film, 475 ohm, 1/8W, 1%		1					
116	062-454		R14	RESISTOR, Metal Film, 768 ohm, 1/8W, 1%		1					
117	062-511		R30	RESISTOR, Metal Film, 549 ohm, 1/8W, 1%		1					
118	062-516		R69,141	RESISTOR, Metal Film, 249 ohm, 1/8W, 1%		2					
119	062-533		R140,160	RESISTOR, Metal Film, 150 ohm, 1/8W, 1%		2					
120	062-547		R49	RESISTOR, Metal Film, 348 ohm, 1/8W, 1%		1					
121	062-561		R95	RESISTOR, Metal Film, 61.9K ohm, 1/8W, 1%		1					
122	062-563		R36	RESISTOR, Metal Film, 3.57K ohm, 1/8W, 1%		1					
123	062-610		R90	RESISTOR, Metal Film, 1.74K ohm, 1/8W, 1%		1					
124	062-631		R34	RESISTOR, Metal Film, 2.49K ohm, 1/8W, 1%		1					
125	062-661		R15	RESISTOR, Metal Film, 237 ohm, 1/8W, 1%		1					
126	062-662		R44,129	RESISTOR, Metal Film, 4.99K ohm, 1/8W, 1%		2					
127	062-706		R33	RESISTOR, Metal Film, 2.49K ohm, 1/8W, 1/2%		1					
128	062-707		R107	RESISTOR, Metal Film, 715 ohm, 1/2W, 1/2%		1					
129	062-708		R2	RESISTOR, Metal Film, 1K ohm, 1/8W, 1/2%		1					
130	062-709		R1	RESISTOR, Metal Film, 2K ohm, 1/8W, 1/2%		1					
131	062-710		R47	RESISTOR, Metal Film, 1.1K ohm, 1/8W, 1/2%		1					

X1364726C

VELOCITY DETECTOR PRINTED WIRING ASSEMBLY (MODULE 224)						CATALOG NO. X1364726		SHEET 5 OF 6					
								NHA 1366053					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
132	062-711		R21	RESISTOR, Metal Film, 3.16K ohm, 1/8W, 1/2%		1							
133	062-712		R46	RESISTOR, Metal Film, 3.83K ohm, 1/8W, 1/2%		1							
134	062-713		R17	RESISTOR, Metal Film, 10.7K ohm, 1/8W, 1/2%		1							
135	062-714		R92	RESISTOR, Metal Film, 165 ohm, 1/8W, 1%		1							
136	062-715		R7, 54	RESISTOR, Metal Film, 649 ohm, 1/8W, 1%		2							
137	062-716		R38	RESISTOR, Metal Film, 1.4K ohm, 1/8W, 1%		1							
138	062-717		R51	RESISTOR, Metal Film, 7.68K ohm, 1/8W, 1%		1							
139	062-718		R74	RESISTOR, Metal Film, 18.7K ohm, 1/8W, 1%		1							
140	062-719		R105	RESISTOR, Metal Film, 274K ohm, 1/8W, 1%		1							
141	062-720		R122	RESISTOR, Metal Film, 619K ohm, 1/8W, 1%		1							
142	062-721		R61	RESISTOR, Metal Film, 23.7K ohm, 1/8W, 1%		1							
143	062-722		R119	RESISTOR, Metal Film, 2.55K ohm, 1/8W, 1%		1							
144	062-725		R29	RESISTOR, Metal Film, 1.65K ohm, 1/8W, 1%		1							
145	062-793		R137	RESISTOR, Metal Film, 22.1K ohm, 1/8W, 1%		1							
146	062-794		R126	RESISTOR, Metal Film, 2.94K ohm, 1/8W, 1%		1							
147	062-795		R132	RESISTOR, Metal Film, 6.98K ohm, 1/8W, 1%		1							
148	057-528		R35	RESISTOR, Metal Film, 787 ohm, 1/8W, 1%		1							
149	119-030		S1	SWITCH, DPDT		1							
150	120-223		S2	SWITCH, SPDT		1							
151	143-989		J8	CONNECTOR, Coaxial, plug, 50 ohm		1							
152	143-933		TP1-3	CONNECTOR, RF Receptacle		3							
153	173-620		E7, 9, 14, 16, 22, 26, 29, 35, 36	TERMINAL, Stud, turret		9							
154	143-981		J9-A, B, C	JACK, Closed Entry		3							
155	173-013		E17, 28, 30	TERMINAL, Bifurcated		3							
156	280-130		Q10, 12, 17-20, 22-28	PAD, Transistor		13							
157	280-173		A6, 7, 10, 11, 14, 27, 29	PAD, Integrated Circuit		7							

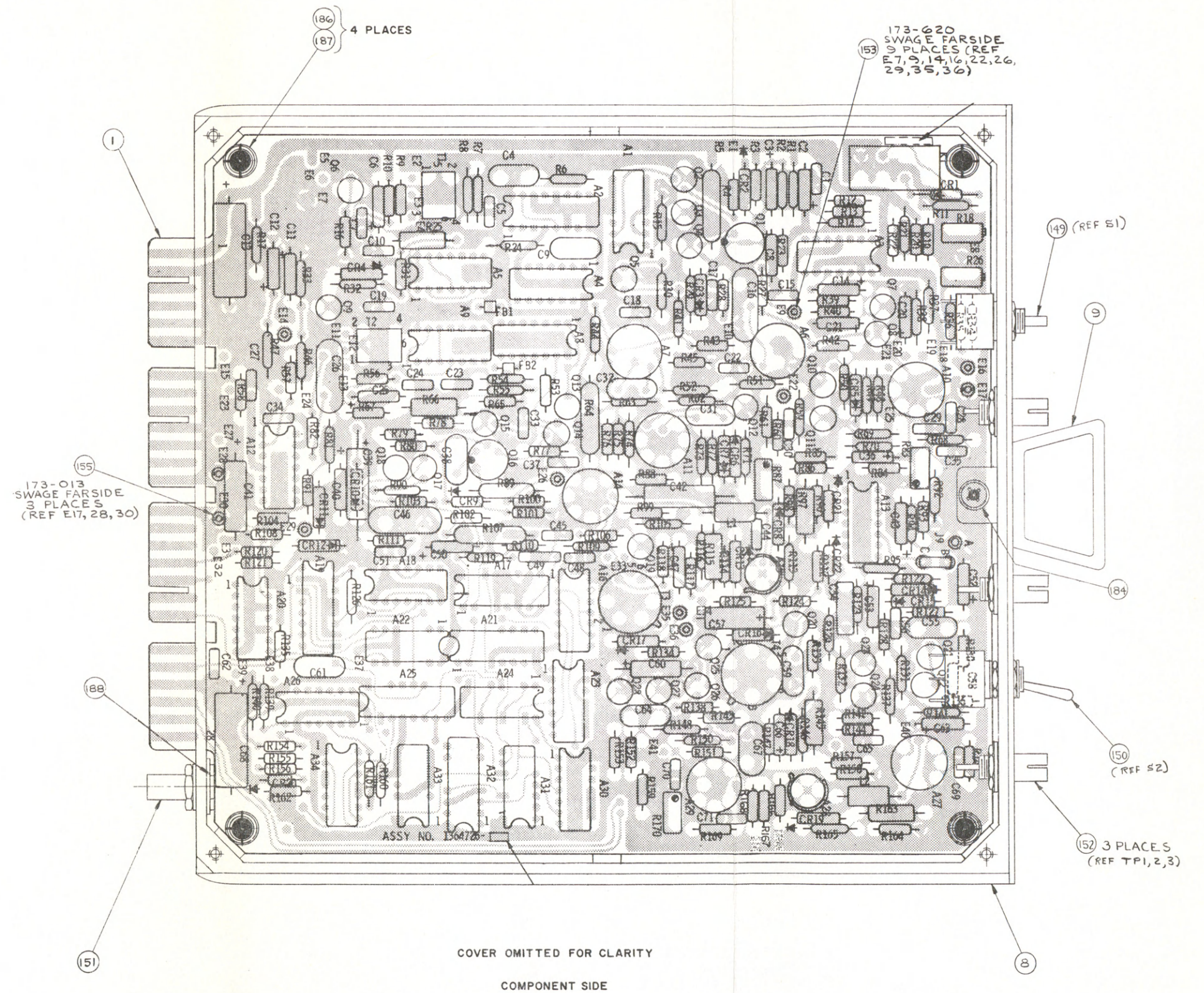
X1364726C

VELOCITY DETECTOR PRINTED WIRING ASSEMBLY (MODULE 224)					CATALOG NO. X1364726	SHEET 6 OF 6							
						NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
158	280-998		A15,28	PAD, Transistor		2							
159	014-783		Q1	PAD, Dual Transistor		1							
160	540-010		L1,2	INDUCTOR, Fixed, 4.7μH, 10%		2							
161	602-012		J9	PLUG, Shorting, red		1							
162	586-060	F710C	A10	INTEGRATED CIRCUIT		1							
163	586-473	MC1210L	A4,16,18,20,24,26,34	INTEGRATED CIRCUIT		7							
164	586-478	MC1217L	A22	INTEGRATED CIRCUIT		1							
165	586-488	MC1235L	A5,9	INTEGRATED CIRCUIT		2							
166	586-489	MC1204L	A31	INTEGRATED CIRCUIT		1							
167	586-490	MC1213L	A1,8,33	INTEGRATED CIRCUIT		3							
168	586-559	LM201AH	A7,11	INTEGRATED CIRCUIT		2							
169	586-560	LM206H	A6	INTEGRATED CIRCUIT		1							
170	586-579	LM102	A14,27,29	INTEGRATED CIRCUIT		3							
171	586-615	MC1222L	A23,30	INTEGRATED CIRCUIT		2							
172	586-616	MC1239L	A21,25	INTEGRATED CIRCUIT		2							
173	586-623	F747 (μ6W7747312)	A3,12,13	INTEGRATED CIRCUIT		3							
174	586-669	MC1232L	A2,17,19,32	INTEGRATED CIRCUIT		4							
176	1380098-01		T3,4	TRANSFORMER		2							
177	560-094		T1,2	TRANSFORMER, 70-110-03		2							
178	932-035		Base Lead of Q2-9,11,13-16,21,22: FB1,2	FERRITE BEAD, 57-0180		18							
179	1366817-01		A15,28	SPRING, Ground Clip		2							
180	103307-02		R18,26	SPACER, Fiber, .125 in		4							
183	018-285			ADHESIVE, Thread Locking		A/R							
184	473-325			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .312		1							
185	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8							
186	473-324			SCREW, Assembled Washer, cross-recessed, pan head, 4-40 x .250		4							
187	501-008			WASHER, Plain, #4		4							
188	501-712			WASHER, Flat, brass, .032 thick		1							
191	615-002			WIRE, Bare, 22 AWG		A/R							
193	616-569			CABLE, Coaxial, 75 ohm		A/R							
194	600-036			SLEEVEING, Teflon, No. 20		A/R							

X1364726C



AMPEX



Velocity Detector Printed Wiring Assembly (Module 224)  
Drawing No. 1364726C



VELOCITY DELAY PRINTED WIRING ASSEMBLY (MODULE 225)					CATALOG NO. X1364729		SHEET 1 OF 5						
							NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
3	1364731			SCHEMATIC		REF							
6	013-678		CR3,5	DIODE		2							
7	013-677		CR1,2,4,6-8	DIODE		6							
8	103307-02		C32	SPACER		4							
9	1366817-01		A1,2,8	SPRING, Ground Clip		3							
10	014-364		Q3	TRANSISTOR		1							
11	014-383		Q2,24	TRANSISTOR		2							
12	014-505		Q1,6,7,12-14,26	TRANSISTOR		7							
13	014-506		Q4,5,8-11,15-22,25,27,28	TRANSISTOR		17							
14	014-581		Q23	TRANSISTOR		1							
15	1368433-01		DL2	DELAY LINE, 62.550μsec		1							
16	1368476-01		DL1	DELAY LINE, .6μsec		1							
17	034-208		C21	CAPACITOR, Mica, 30PF, 500V, 5%		1							
18	030-963		C6,22,33,37,44,45,48,49,54,55,	CAPACITOR, Ceramic, .1μF, 100V, ±10%		11							
19	035-734		C35	CAPACITOR, Mylar, .01μF, 50V, ±5%		1							
20	034-199		C5	CAPACITOR, Mica, 300PF, 500V, 5%		1							
21	034-222		C25,40	CAPACITOR, Mica, 100PF, 500V, 1%		2							
22	056-450		C24,39	CAPACITOR, Mica, 168PF, 500V, 1%		2							
23	056-169		C51	CAPACITOR, Mica, 3PF, 500V, ±0.5PF		1							
24	056-163		C29	CAPACITOR, Mica, 470PF, 500V, 5%		1							
25	034-347		C36	CAPACITOR, Mica, 180PF, 500V, 5%		1							
26	034-269		C18	CAPACITOR, Mica, 22PF, 500V, 5%		1							
27	056-291		C14	CAPACITOR, Mica, 470 PF, 500V, 1%		1							
29	034-297		C12	CAPACITOR, Mica, 180PF, 500V, 1%		1							
30	038-279		C23,27,34,38	CAPACITOR, Variable, 2.0-22PF		4							
31	056-054		C42	CAPACITOR, Mica, 5PF, 500V, ±0.5PF		1							
32	037-991		C4,31	CAPACITOR, Tantalum, 22μF, 15V, 10%		2							
33	037-726		C9,10,41,46,52	CAPACITOR, Tantalum, 3.3μF, 15V, 10%		5							
34	037-164		C1,30,56,57	CAPACITOR, Tantalum, 1μF, 35V, 10%		4							
35	037-367		C2,8,28,53,43	CAPACITOR, Tantalum, 2.2μF, 20V, 10%		5							
36	037-985		C13	CAPACITOR, Tantalum, 15μF, 20V, 10%		1							
37	037-746		C7,50	CAPACITOR, Tantalum, 47μF, 20V, 10%		2							
38	037-740		C26	CAPACITOR, Tantalum, 33μF, 10V, 10%		1							
39	035-893		C17	CAPACITOR, Mylar, .1μF, 50V, 5%		1							

X1364729E

VELOCITY DELAY PRINTED WIRING ASSEMBLY (MODULE 225)					CATALOG NO. X1364729	SHEET 2 OF 5						
					NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-03						
40	035-598		C20	CAPACITOR, Mylar, .047μF, 50V, 5%		1						
41	055-166		C19	CAPACITOR, Mylar, .001μF, 50V, 5%		1						
43	035-730		C11	CAPACITOR, Mylar, .0047μF, 50V, 5%		1						
44	055-135		C15	CAPACITOR, Mylar, .0027μF, 50V, 5%		1						
45	038-284		C32	CAPACITOR, Variable, 1-60PF		1						
46	034-181		C16	CAPACITOR, Mica, 47PF, 500V, 5%		1						
49	051-768		L5, 7	INDUCTOR, Fixed, 10μH, 5%		2						
50	051-769		L4	INDUCTOR, Fixed, 0.56μH, 10%		1						
51	051-588		L2	INDUCTOR, Fixed, 100μH, 2-1/2%		1						
52	540-015		L1, 3, 9	INDUCTOR, Fixed, 1000μH, 5% wee ductor		3						
53	540-045		L6	INDUCTOR, Fixed, 12μH, 10%		1						
54	541-969		L8	INDUCTOR, Fixed, 1.5μH, 5%		1						
56	058-538		R103, 77	RESISTOR, Variable, 200 ohm, 1/2W, 10%		2						
57	041-408		R43, 50	RESISTOR, Comp., 10K ohm, 1/4W, 5%		2						
58	041-414		R19, 47, 51, 72, 79, 85, 90, 117, 124	RESISTOR, Comp., 2.2K ohm, 1/4W, 5%		9						
59	041-425		R3, 20, 38, 42, 58, 60, 100, 101, 102, 109	RESISTOR, Comp., 47 ohm, 1/4W, 5%		10						
60	041-407		R18, 84	RESISTOR, Comp., 3.3K ohm, 1/4W, 5%		2						
61	041-502		R15, 7, 22, 70, 92, 114	RESISTOR, Comp., 240 ohm, 1/4W, 5%		6						
62	041-419		R4, 8, 10, 16, 24, 74, 78, 82, 87, 91, 96, 99, 107, 113, 121, 80, 125	RESISTOR, Comp., 100 ohm, 1/4W, 5%		17						
63	041-744		R5, 111	RESISTOR, Comp., 1.3K ohm, 1/4W, 5%		2						
64	041-785		R9, 122	RESISTOR, Comp., 4.3 megohm, 1/4W, 5%		2						
65	041-410		R13, 73, 105, 110	RESISTOR, Comp., 1K ohm, 1/4W, 5%		4						
66	041-412		R30, 49, 69, 66, 45	RESISTOR, Comp., 4.7K ohm, 1/4W, 5%		5						
67	041-427		R27, 71	RESISTOR, Comp., 330 ohm, 1/4W, 5%		2						
68	041-411		R35, 68	RESISTOR, Comp., 47K ohm, 1/4W, 5%		2						
69	041-394		R65, 36	RESISTOR, Comp., 100K ohm, 1/4W, 5%		2						
70	041-409		R21, 59	RESISTOR, Comp., 15K ohm, 1/4W, 5%		2						
71	041-418		R95, 108	RESISTOR, Comp., 22 ohm, 1/4W, 5%		2						
72	041-506		R61	RESISTOR, Comp., 820 ohm, 1/4W, 5%		1						
73	041-503		R64	RESISTOR, Comp., 270 ohm, 1/4W, 5%		1						
75	041-647		R26	RESISTOR, Comp., 75 ohm, 1/4W, 5%		1						

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10-702

UPDATED FEB. 1971

VELOCITY DELAY PRINTED WIRING ASSEMBLY (MODULE 225)				CATALOG NO. X1364729		SHEET 3 OF 5						
						NHA 1366053						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-03						
76	041-428		R93,88	RESISTOR, Comp., 470 ohm, 1/4W, 5%		2						
77	041-396		R106	RESISTOR, Comp., 220 ohm, 1/4W, 5%		1						
78	041-482		R104	RESISTOR, Comp., 12K ohm, 1/4W, 5%		1						
79	041-435		R94,98	RESISTOR, Comp., 150 ohm, 1/4W, 5%		2						
80	041-437		R76	RESISTOR, Comp., 1.6K ohm, 1/4W, 5%		1						
81	041-739		R123	RESISTOR, Comp., 180 ohm, 1/4W, 5%		1						
82	041-740		R83,52	RESISTOR, Comp., 200 ohm, 1/4W, 5%		2						
83	041-736		R75	RESISTOR, Comp., 110 ohm, 1/4W, 5%		1						
86	041-522		R1,14,23,67, 112,120	RESISTOR, Comp., 910 ohm, 1/2W, 5%		6						
87	041-009		R57	RESISTOR, Comp., 1.8K ohm, 1/2W, 5%		1						
88	062-515		R11,12	RESISTOR, Metal Film, 499 ohm, 1/8W, 1%		2						
89	062-524		R17	RESISTOR, Metal Film, 412 ohm, 1/8W, 1%		1						
90	057-195		R6,115,116,55	RESISTOR, Metal Film, 100 ohm, 1/8W, 1%		4						
91	042-773		R2,25,97,119	RESISTOR, Metal Film, 12.1K ohm, 1/8W, 1%		4						
92	062-723		R48	RESISTOR, Metal Film, 118K ohm, 1/8W, 1%		1						
93	062-724		R46	RESISTOR, Metal Film, 365K ohm, 1/8W, 1%		1						
94	062-451		R37	RESISTOR, Metal Film, 110 ohm, 1/8W, 1%		1						
95	062-533		R34,56	RESISTOR, Metal Film, 150 ohm, 1/8W, 1%		2						
97	062-507		R62	RESISTOR, Metal Film, 11K ohm, 1/8W, 1%		1						
98	062-513		R33,44	RESISTOR, Metal Film, 5.76K ohm, 1/8W, 1%		2						
99	057-598		R28	RESISTOR, Metal Film, 3.32K ohm, 1/8W, 1%		1						
100	062-480		R118,81	RESISTOR, Metal Film, 71.5 ohm, 1/8W, 1%		2						
101	062-605		R54,86	RESISTOR, Metal Film, 3.74K ohm, 1/8W, 1%		2						
102	062-358		R53,89	RESISTOR, Metal Film, 2.43K ohm, 1/8W, 1%		2						
103	048-588		R63	RESISTOR, Metal Film, 3.01K ohm, 1/8W, 1%		1						
104	062-421		R29	RESISTOR, Metal Film, 3.48K ohm, 1/8W, 1%		1						
106	062-722		R39	RESISTOR, Metal Film, 2.55K ohm, 1/8W, 1%		1						

X1364729E

VELOCITY DELAY PRINTED WIRING ASSEMBLY (MODULE 225)						CATALOG NO. X1364729		SHEET 4 OF 5							
								NHA 1366053							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION									
						-03									
107	042-768		R40	RESISTOR, Metal Film, 2.74K ohm, 1/8W, 1%		1									
109	062-379		R41	RESISTOR, Metal Film, 2K ohm, 1/8W, 1%		1									
110	057-546		R31	RESISTOR, Metal Film, 1.02K ohm, 1/8W, 1%		1									
112	020-515		K2	RELAY, DPDT		1									
113	020-467		K1	RELAY, DPDT		1									
114	020-407		K2	PAD, Relay		1									
115	1360036-01		K1	PAD, Relay		1									
117	586-669	MC1232L	A6, 4, 3	INTEGRATED CIRCUIT		3									
118	586-616	MC1239L	A7	INTEGRATED CIRCUIT		1									
119	586-473	MC1210L	A5	INTEGRATED CIRCUIT		1									
125	1380098-01		T1, 2	TRANSFORMER		2									
128	013-838		A1, 8	DIODE, Bridge		2									
129	581-016		A2	DIODE, Bridge		1									
131	280-998		Q3, A1, 2, 8	PAD, Transistor		4									
132	280-130		Q8-10, 12, 13, 15 - 20, 22, 24-26	PAD, Transistor		15									
135	143-981		TP3-A, B, TP4-A, B, J9-A, B, C J10-A, B, C	JACK, Closed Entry		10									
136	173-013		E32, 14, 17, 20, 12	TERMINAL, Bifurcated		5									
137	616-569			CABLE, Coaxial, 75 ohm		A/R									
139	173-620		F1, 2, 6-8, 11, 18, 21, 23, 24, 26, 28, 31, 33	TERMINAL STUD, Turret		14									
140	602-012		J9, 10	SHORTING PLUG, Red		2									
142	932-035		Base of Q1, 2, 4-7, 11, 14, 21, 23, 27, 28	FERRITE BEAD		12									
145	120-223		S1	SWITCH, SPDT		1									
149	1363789-01			FRAME, Module		1									
150	1363791-01			HANDLE, Printed Wiring Board		1									
151	1365046-01			COVER, Module		2									
153	018-285			ADHESIVE, Thread Locking		A/R									
154	473-325			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .312		1									
155	471-325			SCREW, Cross-Recessed, flat head, 4-40 x .188		8									
156	473-324			SCREW, Assembled Washer, pan head, cross-recessed, 4-40 x .250		4									

X1364729E

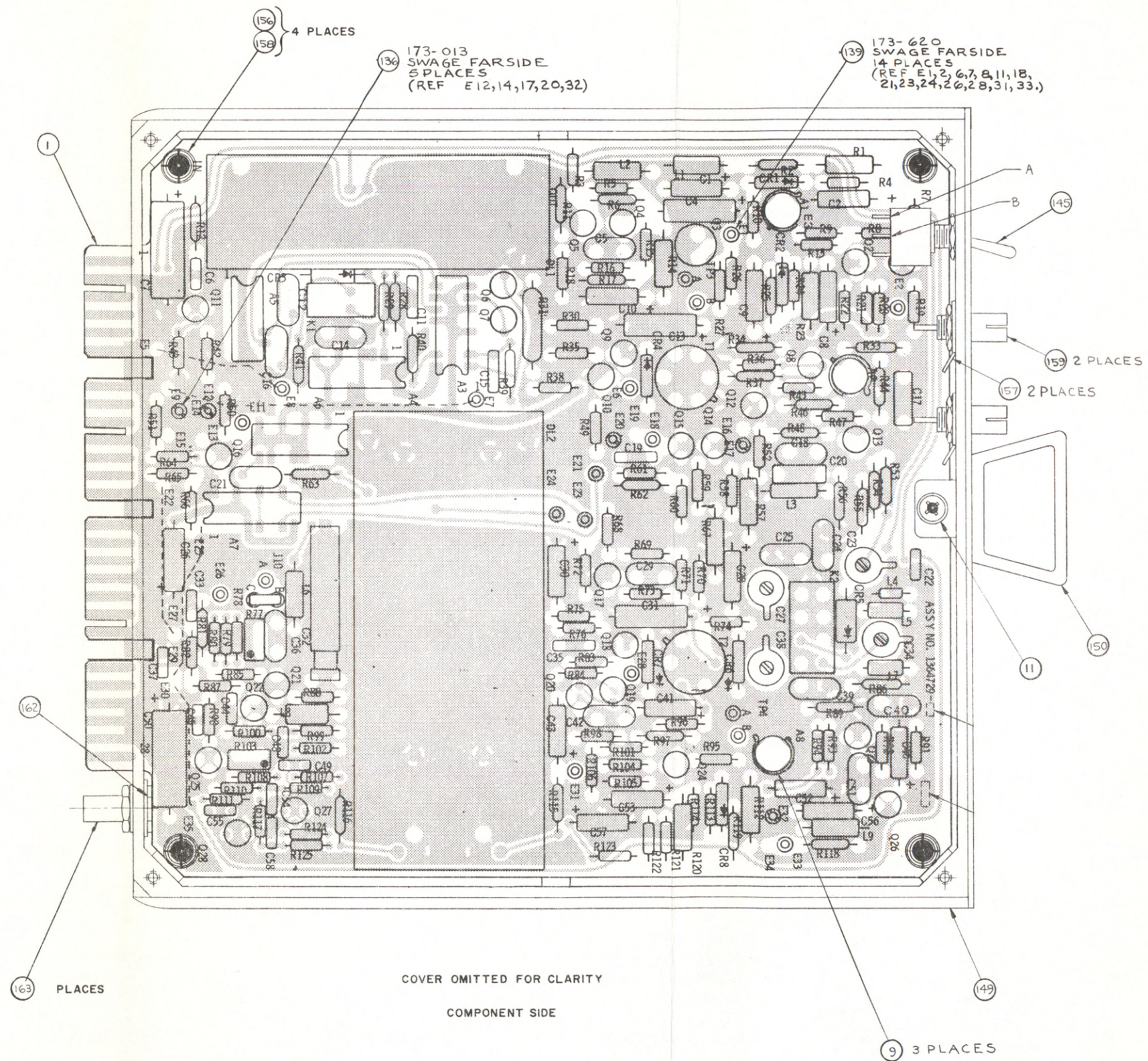


VELOCITY DELAY PRINTED WIRING ASSEMBLY (MODULE 225)					CATALOG NO. X1364729		SHEET 5 OF 5				
							NHA 1366053				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03					
157	172-225		TP2	SOLDER LUG, Internal Tooth, #12		1					
158	501-008			WASHER, Plain, #4		4					
159	143-933		TP1,2	CONNECTOR, Receptacle		2					
162	501-712			WASHER, Flat, brass, .032 thick		1					
163	143-989		J8	CONNECTOR		1					
164	615-002			WIRE, Bare, 22 AWG		A/R					
165	600-161			SLEEVING, Teflon		A/R					

X1364729E



AMPEX



Velocity Delay Printed Wiring Assembly (Module 225)  
Drawing No. 1364729E



## POWER SUPPLIES

POWER SUPPLY ASSEMBLY					CATALOG NO. X1366052		SHEET 1 OF 2					
							NHA 1365988					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
1	1366198			HARNESS ASSEMBLY		REF						
2	1366206-02			+24V REGULATOR MODULE ASSEMBLY		1						
3	1366210-02			-24V REGULATOR MODULE ASSEMBLY		1						
4	1366214-02			±18V REGULATOR MODULE ASSEMBLY		1						
5	1366218-02			±12V REGULATOR MODULE ASSEMBLY		2						
6	1366225-02			+5V REGULATOR MODULE ASSEMBLY		1						
7	1366231-02			MDA MODULE ASSEMBLY		1						
8	1366273-01			SUPPORT, Module		32						
9	1366689-01			TRIM, Power Supply		1						
10	1366753-02			-5.2V REGULATOR MODULE ASSEMBLY		1						
11	1366895-02			PLATE, Switch Kick		1						
12	1366917-02			SWITCH, Kick Plate Assembly		1						
13	1367055-04			FRAME, Power Supply Drawer		1						
14	1367056-02			BRACKET, Foot Switch Connector		1						
15	1367057-02			PANEL, Circuit Breaker		1						
16	1367564			INTERCONNECT WIRING DIAGRAM		REF						
17	1367707-01			LABEL, Circuit Breaker Panel		1						
18	1367707-02			LABEL, Circuit Breaker Panel		1						
19	1368818-02			TUBE SPACER		32						
20	1369108-01			BLOCK, Latch		6						
21	1369109-02			PLATE, Connector, 75 pin		1						
22	1369110-02			PLATE, Connector, motor drive assembly		2						
23	1369111-03			PLATE, Connector, 34 pin		11						
24	1369111-04			PLATE, Connector, 34 pin, +24V power supply		2						
25	1369451			AC HARNESS ASSEMBLY		REF						
32	018-348			ADHESIVE		A/R						
35	120-407		S1	SWITCH, Toggle, SPDT		1						
36	120-960			SWITCH, Ribbon		1						
39	126-157		CB9	BREAKER, Circuit, 1 amp		1						
40	126-158		CB15,16	BREAKER, Circuit, 2 amp		2						
41	126-159		CB8,12-14	BREAKER, Circuit, 3 amp		4						
42	126-161		CB3-6,10,11,17	BREAKER, Circuit, 7-1/2 amp		7						
43	126-207		CB7	BREAKER, Circuit, 10 amp		1						
44	126-210		CB1,2	BREAKER, Circuit, 15 amp		2						
49	166-199			CONTACT, Socket, 20-22 AWG		A/R						

X1366052B



POWER SUPPLY ASSEMBLY					CATALOG NO. X1366052		SHEET 2 OF 2					
							NHA 1365988					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
50	166-200			CONTACT, Pin, 20-22 AWG		A/R						
51	166-224			CONTACT, Socket, 24-26 AWG		A/R						
52	166-225			CONTACT, Socket, 16-18 AWG		A/R						
53	166-226			CONTACT, Pin, 24-26 AWG		A/R						
54	166-227			CONTACT, Pin, 16-18 AWG		A/R						
55	166-264		J14	BODY, Rectangular Receptacle, 75 position		1						
56	166-281		J4,9,11	BODY, Rectangular Receptacle, 34 position		3						
57	166-282		J1,3,5,7	BODY, Rectangular Receptacle, 34 position		4						
58	166-283		J6,8,10,15	BODY, Rectangular Receptacle, 34 position		4						
59	166-284		J2,12,13,16	BODY, Rectangular Receptacle, 34 position		4						
60	166-323		J18	BODY, Circular Receptacle, 4 position		1						
61	169-719		J17	BODY, Rectangular Receptacle, 34 position		1						
64	171-009		J18	TERMINAL, Quick Disconnect		4						
67	280-027			SPACER, Plain, #6, .250 diameter x .625 long		2						
70	302-366			STRAP, Cable		2						
71	302-443			STRAP, Accessories Mounting Plate		2						
72	310-643			LATCH ASSEMBLY CHANNEL		2						

X1366052B

POWER SUPPLY HARNESS ASSEMBLY					CATALOG NO. 1366198		SHEET 1 OF 1						
							NHA 1366052						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
1	1366274-01	G2B10-4SNE	J18	PLATE, Connector, 34 pin		15							
2	1366691-01			PLATE, Connector, 75 pin		1							
3	1367564			WIRING DIAGRAM		REF							
5	Pending			RECEPTACLE, Connector, 4 pin		1							
7	120-079			SWITCH, SPDT		1							
9	166-281		J4,9,11	CONNECTOR, 34 Pin		3							
10	166-282		J3,5,7	CONNECTOR, 34 Pin		3							
11	166-283		J6,8,10,15	CONNECTOR, 34 Pin		4							
12	166-284		J12,13,16	CONNECTOR, 34 Pin		3							
13	166-264		J14	CONNECTOR, 75 Pin		1							
14	166-261		J1	CONNECTOR, 34 Pin		1							
15	166-260		J2	CONNECTOR, 34 Pin		1							
16	169-719		J17	CONNECTOR, 34 Pin		1							
17	166-106		J20-24	CONNECTOR, 57 Pin		5							
21	166-199			CONTACT, Socket, 20-22 GA		A/R							
22	166-200			CONTACT, Pin, 20-22 GA		A/R							
23	166-224			CONTACT, Socket, 24-26 GA		A/R							
24	166-225			CONTACT, Socket, 16-18 GA		A/R							
25	166-226			CONTACT, Pin, 24-26 GA		A/R							
26	166-227			CONTACT, Pin, 16-18 GA		A/R							
29	171-009		J18	TERMINAL, Quick Disconnect, splice		4							

X1366198A

10-7 07/708

+24V REGULATOR MODULE ASSEMBLY				CATALOG NO. 1366206		SHEET 1 OF 2					
				NHA 1366052							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
1	1364541-01			PRINTED WIRING ASSEMBLY, +24V Regulator		1					
2	1366208-01			CHASSIS, +24V Regulator		1					
4	1366437-01			HEATSINK ASSEMBLY, +24V		1					
5	1366439-01			COVER, Channel		1					
6	1366440			SCHEMATIC, Reference Only		REF					
7	1367085-05			LEVER, Module Release		1					
8	1367085-06			LEVER, Module Release		1					
9	1367181-02			HANDLE, Module		2					
10	1367191-01			RESISTOR BRACKET ASSEMBLY		1					
11	1367191-02			RESISTOR BRACKET ASSEMBLY		1					
12	1367085-07			LEVER MODULE RELEASE		1					
13	1367085-08			LEVER MODULE RELEASE		1					
14	1367659-01			INDUCTOR SUPPORT ASSEMBLY		1					
16	041-109			RESISTOR, Fixed, 10K ohm, 1W, 5%		2					
17	063-077		C1	CAPACITOR, Aluminum, 1350μF, 50V		1					
18	063-085		C2-5	CAPACITOR, Aluminum, 15000μF, 75V		4					
19	063-090			CLAMP, Capacitor		4					
20	063-092			CLAMP, Capacitor		1					
22	139-062		J1	CONNECTOR, Printed Circuit, 22 pin		1					
23	166-278	MS34PM-1-53	P3	CONNECTOR, 34 Pin		1					
24	166-277	MS34PM-1-S1	P4	CONNECTOR, 34 Pin		1					
26	302-036			CLAMP, Cable, .375		2					
27	172-004			LUG, Terminal, #4		2					
28	173-628			TERMINAL, Turret, #6		2					
29	172-005			LUG, Terminal, #10		9					
30	171-007			LUG, Terminal, #10 crimp, insulated		13					
31	260-052			GROMMET, Bulk Material		A/R					
32	302-006			CLAMP, Cable, .438		3					
33	302-013			CLAMP, Cable, .625		4					
34	470-063			SCREW, Cap, hex, 4-40 x .500		8					
35	471-064			SCREW, Cross-Recessed, pan head, machine, 4-40 x .500		2					
36	471-069			SCREW, Cross-Recessed, pan head, machine, 6-32 x .375		35					
37	471-082			SCREW, Cross-Recessed, pan head, machine, 8-32 x .75		5					
38	473-309			SCREW, Cross-Recessed, machine, 82°, flat undercut head, 6-32 x .312		8					
39	492-032			NUT, Plain, hex, 4-40		10					
40	496-005			NUT, Assembled Washer, 6-32		11					
41	496-006			NUT, Assembled Washer, 8-32		4					
42	498-342			NUT, Self-Lock, hex, 6-32		20					
43	501-008			WASHER, Plain, #4		2					
44	502-002			WASHER, Lock, spring, #4		8					
45	501-009			WASHER, Plain, #6		15					
48	506-013			WASHER, "D" Cable Clamp		9					
49	530-159			GUIDE, Printed Circuit Board		2					
50	600-069			TUBING, Spiral Wrap		A/R					

X1366206A

+24V REGULATOR MODULE ASSEMBLY					CATALOG NO. 1366206		SHEET 2 OF 2							
							NHA 1366052							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
51	186-001			WIRE, Buss, #12		A/R								
52	597-196			CORD, Fan		1								



+24 VOLT REGULATOR PRINTED WIRING ASSEMBLY				CATALOG NO. 1364541	SHEET 1 OF 2						
				NHA 1366052							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
3	1364543			SCHEMATIC, +24V Regulator		REF					
4	1366614-08			LABEL		1					
5	52528-01			HANDLE, Printed Wiring Board		1					
7	013-257			DIODE, Zener, 6.2V		2					
8	013-313			DIODE, Zener, 12V		2					
9	013-358			DIODE, Zener, 5.1V		1					
10	013-677			DIODE, Silicon		5					
11	013-689			DIODE, Silicon		19					
12	013-831			DIODE, Zener, 6.8V, 1W		2					
13	013-834			DIODE, Zener, 27V, 1W		1					
14	013-983			DIODE, Zener, 5.6V		1					
16	014-632			HEATSINK		2					
17	014-755			HEATSINK, PR 11		4					
21	030-094			CAPACITOR, Monolithic, 1μF, 25V, 20%		2					
22	030-095			CAPACITOR, Monolithic, .1μF, 25V, 20%		4					
23	030-101			CAPACITOR, Monolithic, .47μF, 25V, 20%		4					
24	035-893			CAPACITOR, Mylar, .1μF, 50V, 5%		1					
26	037-181			CAPACITOR, Tantalum, 47μF, 35V		2					
27	037-379			CAPACITOR, Tantalum, 43μF, 100V, 10%		3					
28	037-746			CAPACITOR, Tantalum, 47μF, 20V, 10%		2					
29	037-751			CAPACITOR, Tantalum, 100μF, 10V, 10%		1					
31	041-008			RESISTOR, Fixed, 1.5K ohm, 1/2W, 5%		1					
32	041-020			RESISTOR, Fixed, 47K ohm, 1/2W, 5%		1					
33	041-097			RESISTOR, Fixed, 120 ohm, 1W, 5%		1					
34	041-245			RESISTOR, Fixed, 1K ohm, 1/2W, 5%		1					
35	041-304			RESISTOR, Fixed, 2.7K ohm, 1W, 5%		2					
36	041-455			RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		1					
37	041-516			RESISTOR, Fixed, 75 ohm, 1/2W, 5%		1					
38	041-580			RESISTOR, Fixed, 510Kohm, 1/2W, 5%		1					
39	044-792			RESISTOR, Variable, cermet, 500 ohm, 1W, 10%		2					
41	048-259			RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		2					
43	049-362			RESISTOR, Fixed, 3 ohm, 1/2W, 5%		2					
44	049-645			RESISTOR, Fixed, 6.2 ohm, 1/2W, 5%		2					
47	057-042			RESISTOR, Metal Film, 10K ohm, 1/4W, 1%		3					
48	057-058			RESISTOR, Metal Film, 27 ohm, 1/4W, 2%		2					
49	057-066			RESISTOR, Metal Film, 56 ohm, 1/4W, 2%		2					
50	057-075			RESISTOR, Metal Film, 130 ohm, 1/4W, 2%		2					
51	057-096			RESISTOR, Metal Film, 1K ohm, 1/4W, 2%		3					
52	057-104			RESISTOR, Metal Film, 2.2K ohm, 1/4W, 2%		1					
53	057-107			RESISTOR, Metal Film, 3K ohm, 1/4W, 2%		2					
54	057-109			RESISTOR, Metal Film, 3.6K ohm, 1/4W, 2%		2					

X1364541-

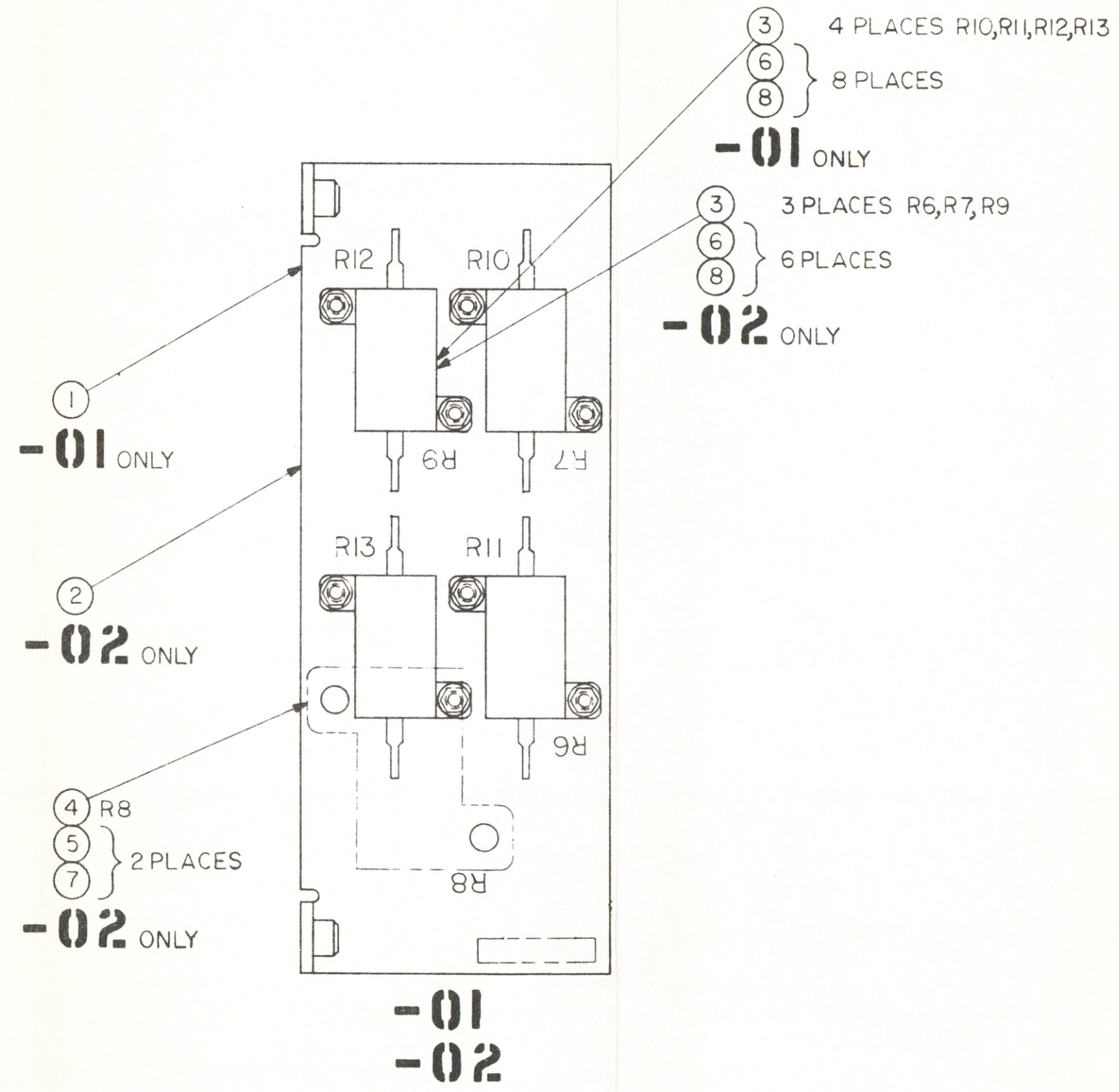
+24 VOLT REGULATOR PRINTED WIRING ASSEMBLY					CATALOG NO.	1364541	SHEET 2 OF 2						
							NHA 1366052						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
55	057-112	2N5322 2N5320 μA741C		RESISTOR, Metal Film, 4.7K ohm, 1/4W, 2%		2							
56	057-120		RESISTOR, Metal Film, 10K ohm, 1/4W, 2%		3								
57	057-127		RESISTOR, Metal Film, 20K ohm, 1/4W, 2%		1								
58	057-144		RESISTOR, Metal Film, 100K ohm, 1/4W, 2%		1								
59	057-453		RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		4								
60	057-918		RESISTOR, Metal Film, 9.09K ohm, 1/4W, 1%		1								
62	058-078		RESISTOR, Variable, cermet, 2K ohm, 1W, 10%		1								
63	058-422		RESISTOR, Variable, cermet, 2K ohm, 1W, 10%		1								
68	148-027		CONNECTOR, Printed Circuit, tip jack, red		1								
69	148-028		CONNECTOR, Printed Circuit, tip jack, white		1								
70	148-030		CONNECTOR, Printed Circuit, tip jack, blue		1								
71	173-620		TERMINAL STUD, Turret		1								
73	280-173		MOUNTING PAD, Integrated Circuit		6								
74	280-998		MOUNTING PAD, Transistor		8								
76	580-166		TRANSISTOR, Silicon, PNP		5								
77	580-167		TRANSISTOR, Silicon, NPN		3								
78	586-269		INTEGRATED CIRCUIT		6								

X1364541-

RESISTOR BRACKET ASSEMBLY					CATALOG NO. 1367191		SHEET 1 OF 1				
					NHA 1366026						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01	-02				
1	1367127-01			BRACKET, Resistor, front		1	-				
2	1367127-02			BRACKET, Resistor, rear		-	1				
3	059-366			RESISTOR, Power, .1 ohm, 10W, 3%		4	3				
4	043-373			RESISTOR, Power, 150 ohm, 25W, 5%		-	4				
5	471-327			SCREW, Cross-Recess, flat head, 4-40 x .312		-	2				
6	472-467			SCREW, Cross-Recess, flat head, 2-56 x .312		8	6				
7	498-341			NUT, Self-Locking, 4-40 NC-3B		-	2				
8	498-346			NUT, Self-Locking, 4-40 NC-3B		8	6				

X1367191 B

AMPEX



Resistor Bracket Assembly  
Dwg. No. 1367191



+24V HEATSINK ASSEMBLY				CATALOG NO. X1366437		SHEET 1 OF 2					
						NHA 1366206					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
1.	1366440	2N3766	SCR 1	SCHEMATIC		REF					
2	1367123-02			HEATSINK, +24V		1					
3	1367110-01			SUPPORT, Heatsink		1					
4	1367122-01			HEATSINK, +24V		1					
5	1367122-02			HEATSINK, +24V		1					
8	1367128-01			HEATSINK, +24V		1					
9	1367180-01			WASHER, SCR		2					
10	1367198-01			BRACE, Heatsink		4					
11	1367482-01			SUPPORT, Heatsink, top		2					
12	1367688-04			SCREW, Stock		4					
13	1367688-05			SCREW, Stock		2					
14	1367688-06			SCREW, Stock		2					
15	013-678		CR1,2	DIODE, Silicon		2					
16	1367124-02		SCR 2	HEATSINK, +24V		1					
17	014-660		Q1-3,7-9	TRANSISTOR		6					
18	014-692		Q5,6	TRANSISTOR		2					
19	014-947		Q4	TRANSISTOR		1					
20	030-300		C6,7	CAPACITOR, Ceramic, .1 ohm, 500V, 20%		2					
22	041-317		R1	RESISTOR, Composition, 820 ohm, 1/2W, 5%		1					
23	041-558		R2,5	RESISTOR, Composition, 56 ohm, 1/2W, 5%		2					
24	041-473		R14,15	RESISTOR, Composition, 240 ohm, 1/2W, 5%		2					
25	041-963		R3,4	RESISTOR, Composition, 12 ohm, 1/2W, 5%		2					
26	049-362		R18,19	RESISTOR, Composition, 3 ohm, 1/2W, 5%		2					
27	087-388			SILICON COMPOUND		A/R					
29	173-635		E1,2,6,7	TERMINAL, Stud, turret, 4-40		4					
30	172-031		SCR1,2	LUG, Terminal, 1/2, stud		2					
31	265-999			BUSHING, Sleeve, flanged, nylon		18					
32	471-471			SCREW, Machine, cross-recessed, pan head, 4-40 x .750		18					
33	498-341			NUT, Self-Locking, 4-40							
34	498-342			NUT, Self-Locking, 6-32		4					
35	496-004			NUT, Assembled Washer, 4-40		26					
36	502-064			WASHER, Lock, internal tooth, 1/2		2					
37	501-008			WASHER, Plain, flat, #4		22					

X1366437C

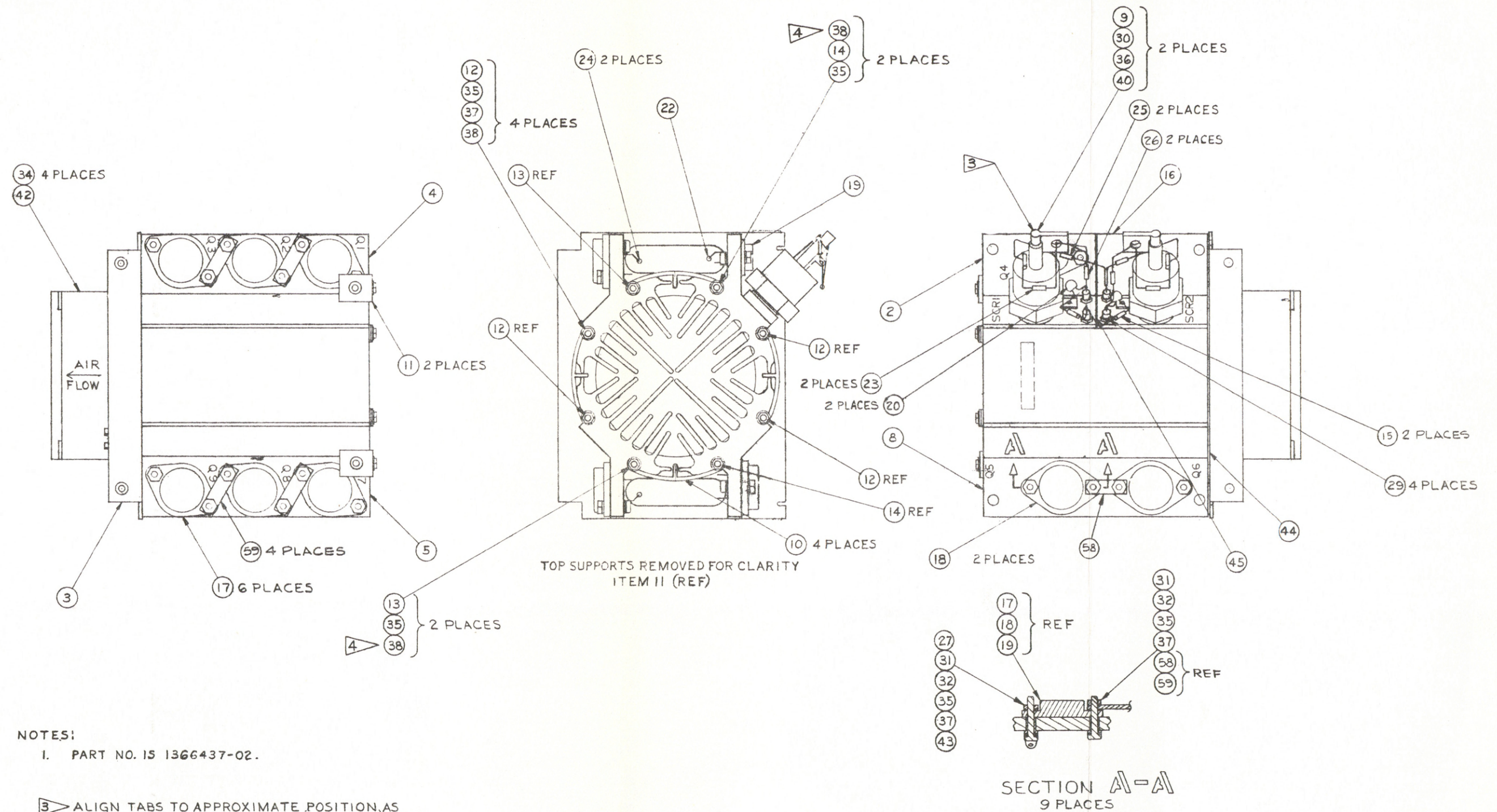
+24V HEATSINK ASSEMBLY				CATALOG NO. X1366437		SHEET 2 OF 2							
						NHA 1366206							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
38	503-009	NL-C45A	SCR1,2	WASHER, Flat, lamacoid #4		8							
40	580-243			THYRISTOR		2							
42	591-137			FAN		1							
43	172-004			TERMINAL LUG, Solder, #4		9							
44	1368514-01			GASKET, +24V Heat sink		1							

X1366437C

10-718

UPDATED FEB. 1971

AMPEX



## NOTES:

1. PART NO. IS 1366437-02.

3 ALIGN TABS TO APPROXIMATE POSITION, AS SHOWN, USING ITEM 36. TORQUE IS 75 TO 100 INCH-LBS.

4 ITEM 38 TO BE LOCATED BETWEEN HEAT SINKS, ITEMS 2, 4, 5, 8 & SUPPORTS HEAT SINK, TOP, ITEM 11.

+24V Heatsink Assembly  
Drawing No. 1366437C

UPDATED FEB. 1971

10-719/720

-24V REGULATOR MODULE ASSEMBLY				CATALOG NO. 1366210		SHEET 1 OF 2					
				NHA 1366052							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
1	1364432-01	MS34PM-1-S7 MS34PM-1-S5   <									

X1366210A



-24V REGULATOR MODULE ASSEMBLY					CATALOG NO.	1366210	SHEET 2 OF 2						
							NHA 1366052						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
66	063-092			CLAMP, Capacitor		1							
67	166-178			CONTACT, Terminal Lug, crimp, 24-26 AWG		A/R							
68	166-257			CONTACT, Terminal Lug, crimp, 20-22 AWG		A/R							
69	143-932			CLIP, Commoning		A/R							
70	166-200			CONTACT, Pin, 20-22 AWG		A/R							
72	166-226			CONTACT, Pin, 24-26 AWG		A/R							
73	166-227			CONTACT, Pin, 16-18 AWG		A/R							
75	CD569			WIRE, Stranded, insulated		A/R							
76	613-065			WIRE, Shielded, insulated, 20 AWG, white		A/R							
78	616-283			WIRE, Shielded, insulated, 22 AWG, white, black		A/R							
79	616-308			WIRE, Shielded, insulated, 18 AWG, single conductor, white/green		A/R							
80	616-404			WIRE, Shielded, insulated, 18 AWG, white, black, red		A/R							
82	617-422			WIRE, Shielded, insulated, 24 AWG, green		A/R							

X1366210A

-24 VOLT REGULATOR PRINTED WIRING ASSEMBLY						CATALOG NO. 1364550		SHEET 1 OF 2					
								NHA 1366210					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
3	1364552			SCHEMATIC, -24V Regulator		REF							
4	52528-01			HANDLE, Printed Wiring Board		1							
10	013-313		VR2	DIODE, Zener, 12V		1							
11	013-831		VR5	DIODE, Zener, 6.8V		1							
12	013-257		VR3	DIODE, Zener, 6.2V		1							
13	013-358		VR1	DIODE, Zener, 5.1V		1							
14	013-650		CR1	DIODE, Germanium		1							
15	013-689		CR2-10	DIODE, Silicon		9							
16	013-983		VR4	DIODE, Zener, 5.6V		1							
19	030-095		C7	CAPACITOR, Monolithic; 0.1μF, 25V, 20%		1							
20	030-101		C8,11	CAPACITOR, Monolithic, 0.47μF, 25V, 20%		2							
21	037-152		C10,12	CAPACITOR, Tantalum, 82μF, 50V, 20%		2							
22	037-164		C3,4	CAPACITOR, Tantalum, 1μF, 35V, 10%		2							
23	037-379		C9	CAPACITOR, Tantalum, 43μF, 100V, 10%		1							
24	037-649		C1,2	CAPACITOR, Tantalum, 47μF, 50V, 20%		2							
25	037-746		C5,6	CAPACITOR, Tantalum, 47μF, 20V, 10%		2							
28	041-008		R22	RESISTOR, Fixed, 1.5K ohm, 1/2W, 5%		1							
29	041-014		R2-4	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		3							
30	041-020		R14	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		1							
31	041-097		R17	RESISTOR, Fixed, 120 ohm, 1W, 5%		1							
32	041-245		R1,24	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		2							
33	041-304		R15	RESISTOR, Fixed, 2.7K ohm, 1W, 5%		1							
34	041-321		R5	RESISTOR, Fixed, 200K ohm, 1/2W, 5%		1							
35	041-421		R26	RESISTOR, Fixed, 22 ohm, 1/2W, 5%		1							
36	041-455		R13	RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		1							
37	041-516		R23	RESISTOR, Fixed, 75 ohm, 1/2W, 5%		1							
38	041-548		R25	RESISTOR, Fixed, 130 ohm, 1/2W, 5%		1							
39	041-433		R18	RESISTOR, Fixed, 27 ohm, 1/2W, 5%		1							
40	058-529		R19	RESISTOR, Variable, cermet, 500 ohm, 1W, 10%		1							
41	057-096		R30	RESISTOR, Metal Film, 1K ohm, 1/4W, 2%		1							
42	057-834		R28	RESISTOR, Metal Film, 1.13K ohm, 1/4W, 1%		1							
43	049-360		R16	RESISTOR, Fixed, 5.1 ohm, 1/2W, 5%		1							
44	049-362		R11,12,21	RESISTOR, Fixed, 3 ohm, 1/2W, 5%		3							
45	057-112		R7-10	RESISTOR, Metal Film, 4.7K ohm, 1/4W, 2%		4							
46	057-453		R20,27	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		2							
48	057-105		R6	RESISTOR, Metal Film, 2.4K ohm, 1/4W, 2%		1							
49	057-113		R29	RESISTOR, Metal Film, 5.1K ohm, 1/4W, 2%		1							
50	148-028		TP1	CONNECTOR, Printed Circuit, tip jack, white		1							
51	148-030		TP2	CONNECTOR, Printed Circuit, tip jack, blue		1							
52	173-620		E1,2	TERMINAL STUD, Turret		2							
53	280-173		A1-4	MOUNTING PAD, Integrated Circuit		4							

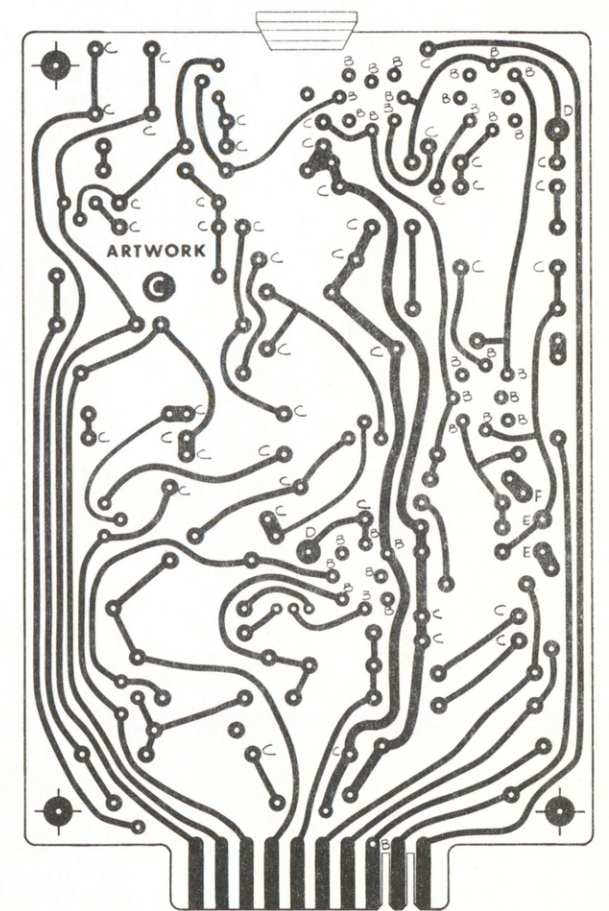
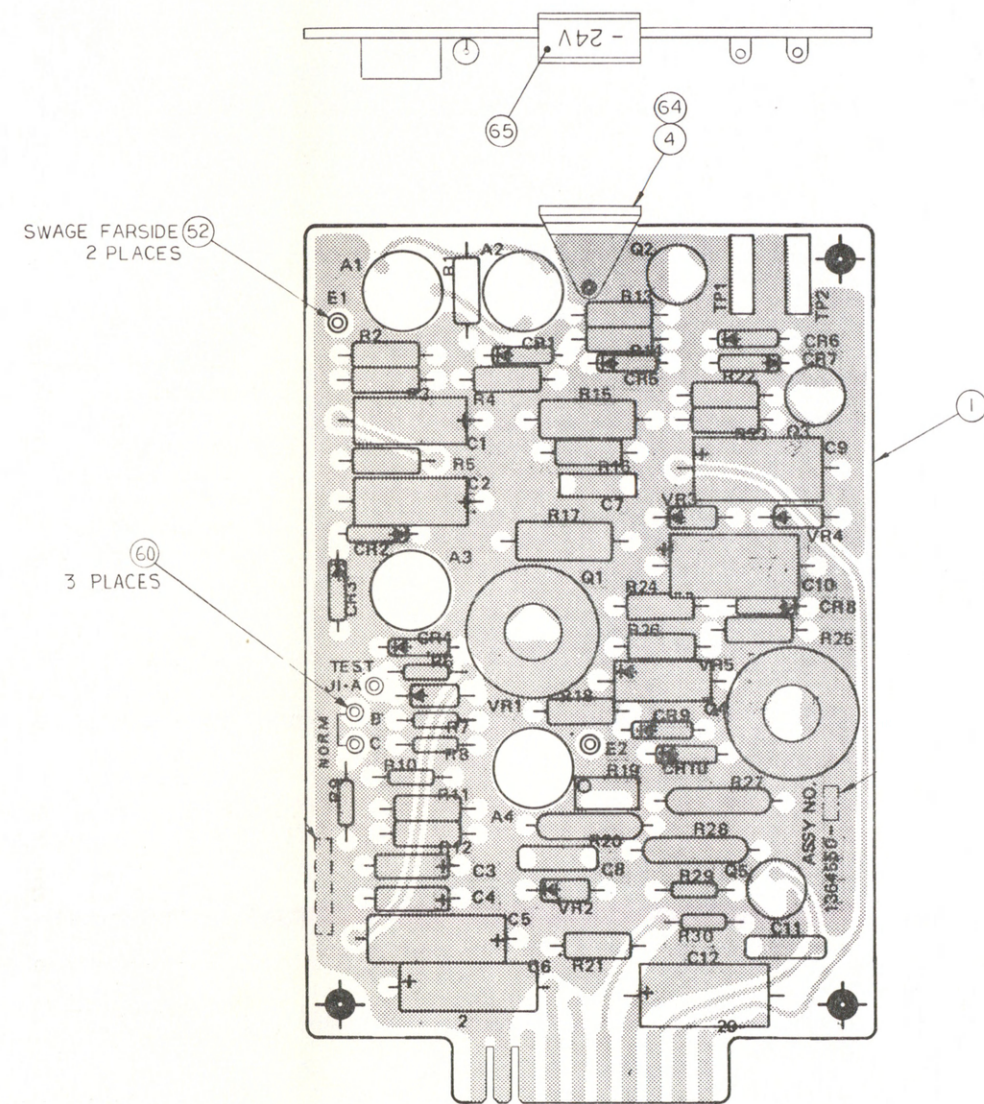
X1364550A

-24 VOLT REGULATOR PRINTED WIRING ASSEMBLY					CATALOG NO.	1364550	SHEET 2 OF 2						
							NHA 1366210						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
54	280-993		Q1-5	MOUNTING PAD, Transistor		5							
55	014-755	TO-5	Q1,4	HEATSINK, Transistor		2							
56	580-166	2N5322	Q3,5	TRANSISTOR		2							
57	580-167	2N5320	Q1,2,4	TRANSISTOR		3							
59	586-269	$\mu$ A741C	A1-4	INTEGRATED CIRCUIT		4							
60	143-981		J1-A, B, C	CONNECTOR, Jack		3							
61	602-012		J1	CONNECTOR, Plug		1							
62	087-388		Q1,4	SILICONE COMPOUND		A/R							
65	1366614-09			LABEL		1							

X1364550A

10-724

AMPEX



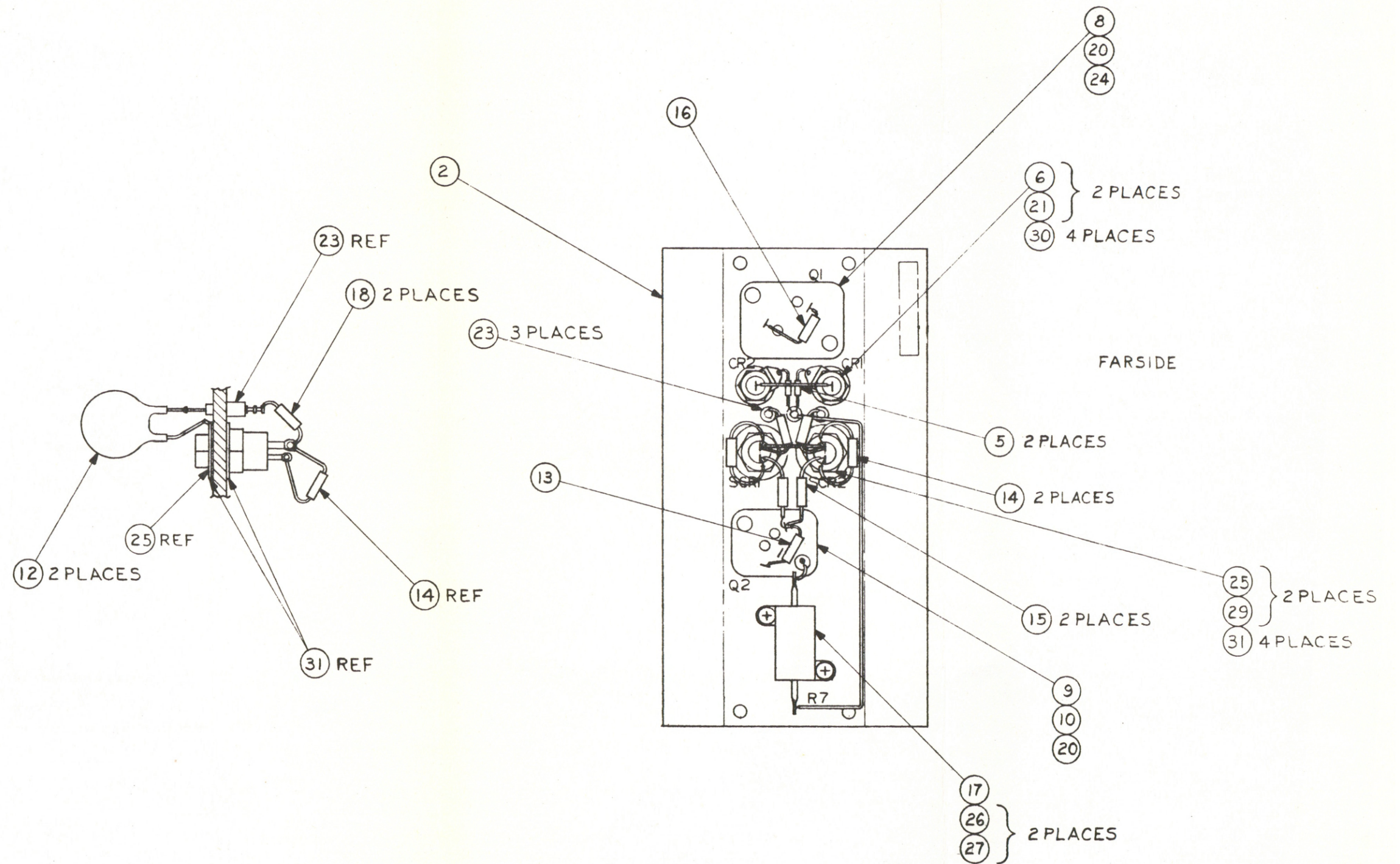
-24V Regulator Printed Wiring Assembly  
Dwg. No. 1364550



-24 VOLT HEATSINK ASSEMBLY					CATALOG NO.	1366441	SHEET 1 OF 1						
								NHA 1366210					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
2	1366211-02			HEATSINK, -24V Regulator		1							
5	013-678		CR3,4	DIODE, Silicon		2							
6	013-684		CR1,2	DIODE, Silicon		2							
8	580-245	2N4399	Q1	TRANSISTOR, Silicon, PNP		1							
9	014-833		Q2	KIT, Transistor Mounting		1							
10	014-947	2N3766	Q2	TRANSISTOR, Silicon, NPN		1							
12	030-300		C1,2	CAPACITOR, Ceramic, .1μF, 500V, ±20%		2							
13	041-317		R6	RESISTOR, Fixed, 820 ohm, 1/2W		1							
14	041-558		R2,5	RESISTOR, Fixed, 56 ohm, 1/2W		2							
15	041-963		R3,4	RESISTOR, Fixed, 12 ohm, 1/2W		2							
16	041-461		R1	RESISTOR, Fixed, 180 ohm, 1/2W		1							
17	043-306		R7	RESISTOR, Power, 75 ohm, 25W		1							
18	049-362		R8,9	RESISTOR, Fixed, 3 ohm, 1/2W, 5%		2							
20	087-388			SILICONE, Compound		A/R							
21	172-009			TERMINAL LUG, Solder, ring tongue		2							
22	187-054		E1	TERMINAL, Feed Thru, #6									
23	187-054		E1,2,3	TERMINAL, Feed Thru		3							
24	150-142		Q1	KIT, Transistor Mounting		1							
25	172-036			TERMINAL LUG, Solder, ring tongue		2							
26	471-062			SCREW, Cross-Recessed, machine, pan head, 4-40 x .375		2							
27	498-341	UNC-38		NUT, Self-Locking, 4-40		2							
28	498-342	UNC-38	E1	NUT, Self-Locking, 6-32		-							
29	580-247	2N3897	SCR1,2	SCR		2							
30	581-033		CR1,2	INSULATOR, Shoulder		4							
31	581-034		SCR1,2	INSULATOR, Shoulder		4							

X1366441B

AMPEX



-24V Heatsink Assembly  
Dwg. No. 1366441

±18VOLT REGULATOR MODULE ASSEMBLY					CATALOG NO. 1366214		SHEET 1 OF 2						
							NHA 1366052						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
1	1211910-10			TERMINALS, Quad		3							
2	1364559-01			PRINTED WIRING ASSEMBLY, ±18 Volt Regulator		1							
3	1364565-01			PRINTED WIRING ASSEMBLY, Ramp Generator		1							
4	1366215-01			HEATSINK, ±18Volt Regulator		1							
5	1366217-01			HARNESS		1							
6	1366220-01			CHASSIS, ±18 Volt Regulator		1							
7	1366271-01			COVER, Channel		1							
8	1366444-01			TRANSFORMER SUPPORT ASSEMBLY		1							
9	1366445			SCHEMATIC, ±18 Volt Regulator		REF							
10	1366573-01			HOLDER, Terminal		1							
11	1367085-01			LEVER, Module Release		1							
12	1367085-02			LEVER, Module Release		1							
13	014-614		Q1	TRANSISTOR, Silicon, NPN power		1							
14	014-627		Q2	TRANSISTOR, Silicon, PNP power		1							
15	1367181-01			HANDLE, Module		2							
16	018-010			ADHESIVE, Contact, cement		A/R							
17	063-082		C1-4	CAPACITOR, Aluminum, 5700μF, 50V		4							
18	063-091		C1-4	CLAMP, Capacitor		4							
19	171-007		C1-4	LUG, Terminal, #10, ring tongue		20							
20	172-005		C1-4	LUG, Terminal, #10		4							
21	260-058			GROMMET, Bulk Material		A/R							
22	280-025			SPACER, Threaded, #6, .250 O.D. x .75		4							
23	1367085-03			LEVER, Module Release		1							
24	1367085-04			LEVER, Module Release		1							
25	302-049			CLAMP, Cable, .500 I.D.		8							
26	470-063			SCREW, Cap, hex socket, 4-40 x .500		8							
27	471-069			SCREW, Cross-Recessed, pan head, machine, 6-32 x 3/8		24							
28	471-071			SCREW, Cross-Recessed, pan head, machine, 6-32 x .500		4							
30	473-309			SCREW, Cross-Recessed, 82°, flat head, machine, 6-32 x .312, undercut		8							
31	471-064			SCREW, Cross-Recessed, pan head, machine, 4-40 x .500		4							
32	498-341	UBC-3B		NUT, Self-Locking, 4-40		4							
33	498-342	UNC-3B		NUT, Self-Locking, 6-32		12							
37	166-280	MS34PM-1-S7	J13	BODY, Rectangular, plug connector		1							
41	501-625			WASHER, Plain, #6		28							
43	506-013			WASHER, "D", cable, #6		8							
45	530-159			GUIDE, Printed Circuit Board		4							
47	139-061			CONNECTOR, Printed Circuit Board, 20 pin		2							
49	166-265	MS75PM-1-S9	J14	BODY, Rectangular, plug connector, 75 pin		1							
55	150-142		Q1,2	KIT, Power Transistor Mounting		2							
56	037-117		C5,6	CAPACITOR, Tantalum, 150μF, 30V		2							
57	041-013			RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		2							
58	280-031	TO-3	Q1,2	INSULATOR, Transistor, anodized aluminum		2							

X1366214A

±18 VOLT REGULATOR MODULE ASSEMBLY				CATALOG NO. 1366214		SHEET 2 OF 2						
						NHA 1366052						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
59	614-931			WIRE, Shielded, insulated, 24 AWG, white/brown		A/R						
60	114-932			WIRE, Shielded, insulated, 24 AWG, white/red		A/R						
61	614-933			WIRE, Shielded, insulated, 24 AWG, white/orange		A/R						
62	614-934			WIRE, Shielded, insulated, 24 AWG, white/yellow		A/R						
63	614-935			WIRE, Shielded, insulated, 24 AWG, white/green		A/R						
64	614-936			WIRE, Shielded, insulated, 24 AWG, white/blue		A/R						
65	614-937			WIRE, Shielded, insulated, 24 AWG, white/violet		A/R						
66	143-932			SLIP, Commoning		A/R						
67	166-178			CONTACT, Terminal Lug, crimp, 24-26 AWG		A/R						
68	166-259			CONTACT, Terminal Lug, crimp, 20-22 AWG		A/R						
70	166-200			CONTACT, Pin, 20-22 AWG		A/R						
72	166-226			CONTACT, Pin, 24-26 AWG		A/R						
73	166-227			CONTACT, Pin, 16-18 AWG		A/R						
75	CD569			WIRE, Stranded, insulated		A/R						
76	613-065			WIRE, Shielded, insulated, 20 AWG, white		A/R						
78	616-283			WIRE, Shielded, insulated, 22 AWG, white/black		A/R						
79	616-308			WIRE, Shielded, insulated, 18 AWG, white/green		A/R						
80	616-404			WIRE, Shielded, insulated, 18 AWG, white/black/red		A/R						
82	617-422			WIRE, Shielded, insulated, 24 AWG, green		A/R						

X1366214A



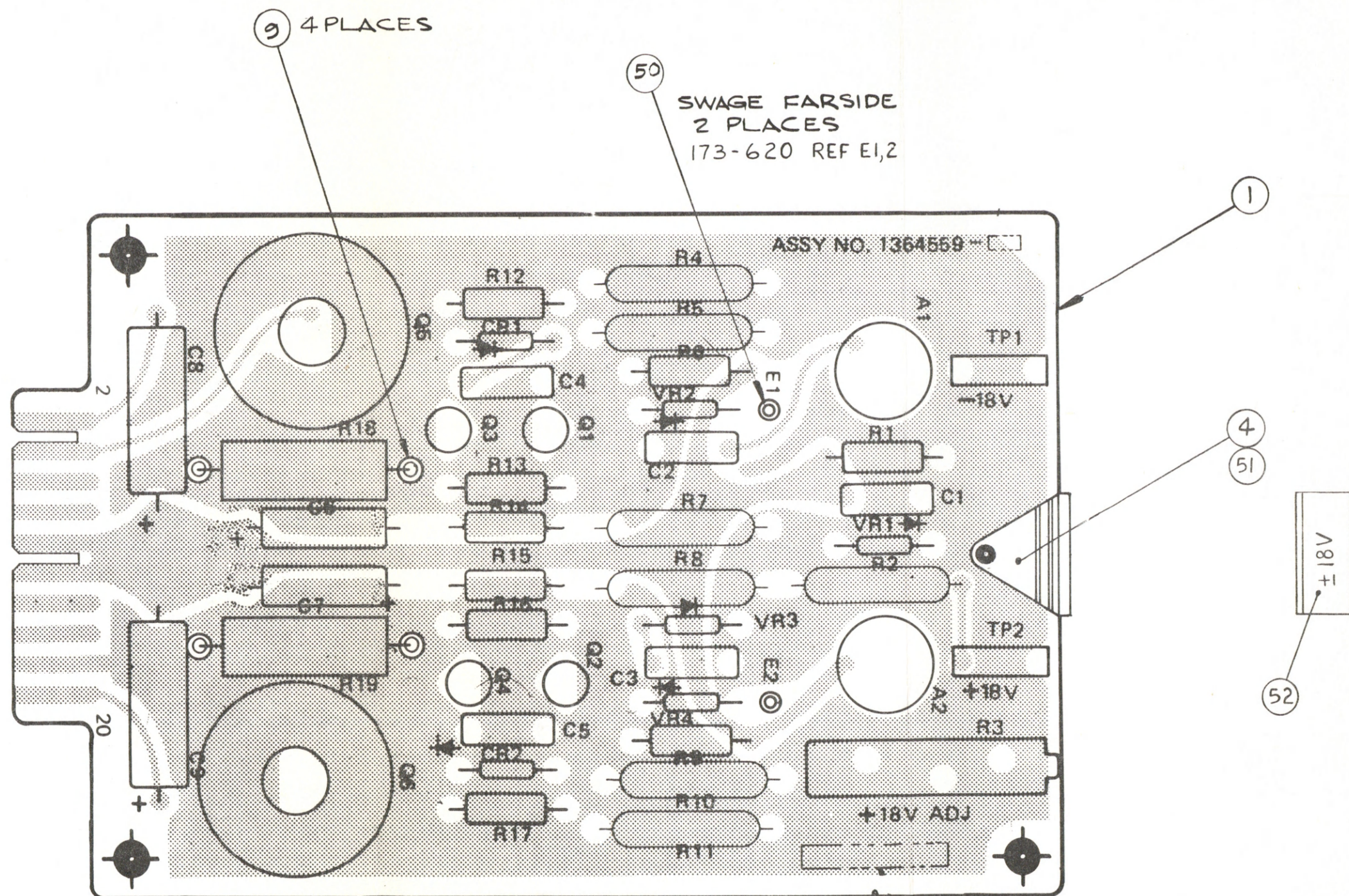
±18 VOLT REGULATOR PRINTED WIRING ASSEMBLY					CATALOG NO.	1364559	SHEET 1 OF 1				
							NHA 1366214				
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
3	1364561	1N825A		SCHEMATIC		REF					
4	52528-01			HANDLE, Printed Wiring Board		1					
5	013-460		VR3	DIODE, Zener, 6.2V		1					
6	013-313		VR1	DIODE, Zener, 12 V		1					
7	013-383		VR2,4	DIODE, Zener, 9.1V		2					
8	013-689		CR1,2	DIODE, Silicon		2					
9	103307-01		R18,19	SPACER, 1/4" Long		4					
11	014-383		Q1,3	TRANSISTOR		2					
12	014-387		Q2,4	TRANSISTOR		2					
14	030-101		C1-3	CAPACITOR, Ceramic, 0.47μF, 25V, 20%		3					
16	035-893		C4,5	CAPACITOR, Mylar, 0.1μF, 50V, 5%		2					
18	037-219		C6,7	CAPACITOR, Tantalum, 6.8μF, 35V, 10%		2					
19	037-736		C8,9	CAPACITOR, Tantalum, 22μF, 35V, 10%		2					
21	041-010		R1	RESISTOR, Fixed, 2K ohm, 1/2W, 5%		1					
22	041-014		R6,9	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		2					
23	041-282		R12,14,15,17	RESISTOR, Fixed, 150 ohm, 1/2W, 5%		4					
24	041-283		R13,16	RESISTOR, Fixed, 47 ohm, 1/2W, 5%		2					
26	059-331		R18,19	RESISTOR, Power, wirewound, 0.5 ohm, 5W, 3%		2					
29	044-735		R3	RESISTOR, Variable, cermet, 100 ohm, 1W, 10%		1					
30	048-403		R8	RESISTOR, Metal Film, 499 ohm, 1/2W, 1%		1					
31	048-703		R2	RESISTOR, Metal Film, 1.3K ohm, 1/2W, 1%		1					
33	057-456		R10	RESISTOR, Metal Film, 732 ohm, 1/2W, 1%		1					
34	057-636		R7	RESISTOR, Metal Film, 715 ohm, 1/2W, 1%		1					
35	057-159		R11	RESISTOR, Metal Film, 1.43K ohm, 1/2W, 1%		1					
36	148-027		TP2	CONNECTOR, Printed Circuit, tip jack, red		1					
37	062-449		R4,5	RESISTOR, Metal Film, 1425 ohm, .4W, .1%		2					
38	148-030		TP1	CONNECTOR, Printed Circuit, tip jack, blue		1					
39	280-130	TO-18	Q1-4	MOUNTING PAD, Transistor		4					
40	280-173	TO-5	A1,2	MOUNTING PAD, Integrated Circuit		2					
41	280-998		Q5,6	MOUNTING PAD, Transistor		2					
42	014-755		Q5,6	HEATSINK, Transistor		2					
43	580-166	2N5322	Q5	TRANSISTOR		1					
44	580-167	2N5320	Q6	TRANSISTOR		1					
46	586-269	μA741C	A1,2	INTEGRATED CIRCUIT		2					
50	173-620		E1,2	TERMINAL, Stud, turret		2					
52	1366614-10			LABEL		1					

X1364559B

10-733/734



AMPEX



COMPONENT SIDE

±18V Regulator Printed Wiring Assembly  
Dwg. No. 1364559

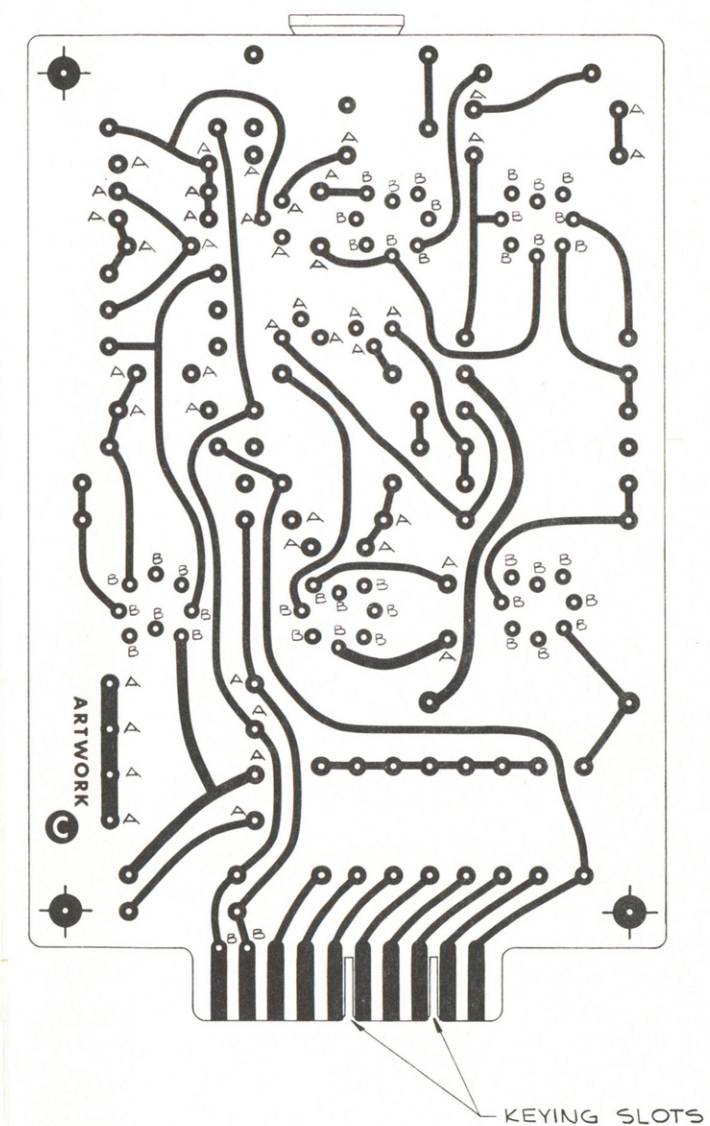
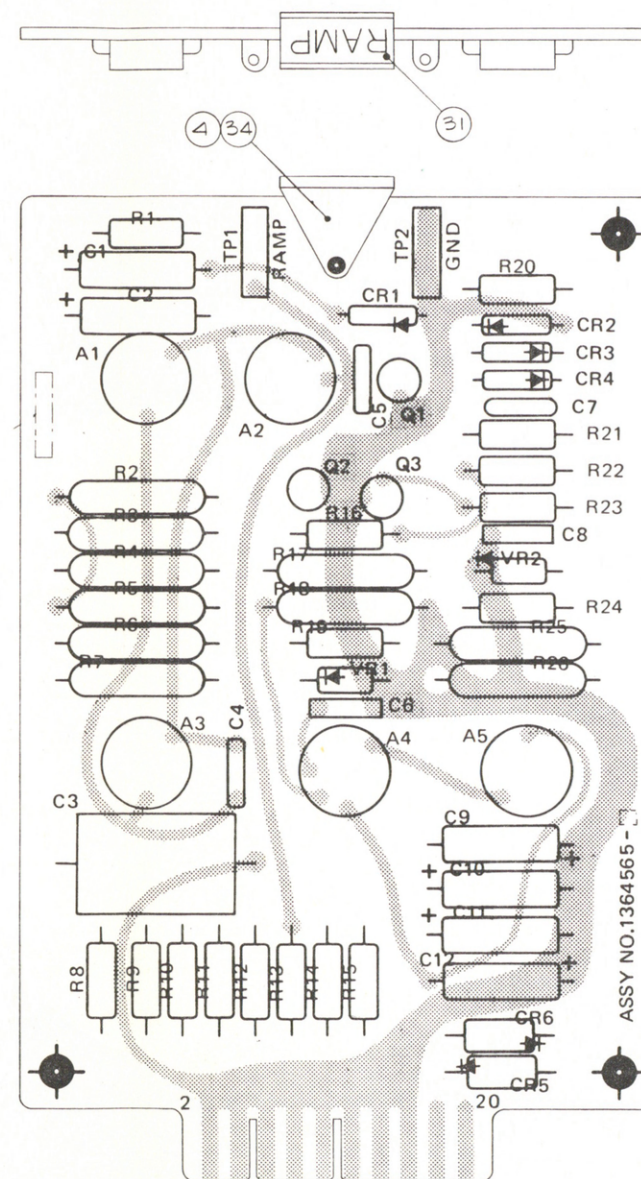


RAMP GENERATOR PRINTED WIRING ASSEMBLY					CATALOG NO. 1364565		SHEET 1 OF 1					
							NHA 1366214					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
3	1364567			SCHEMATIC		REF						
4	52528-01			HANDLE, Printed Wiring Board		1						
6	013-332		VR1,2	DIODE, Zener, 4.7V, 5%		2						
7	013-678		CR5,6	DIODE, Silicon		2						
8	013-689		CR1-4	DIODE, Silicon		4						
10	014-506		Q1	TRANSISTOR		1						
11	014-600		Q2,3	TRANSISTOR		2						
13	035-734		C4-6,8	CAPACITOR, Mylar, 0.01μF, 50V, 5%		4						
14	033-351		C3	CAPACITOR, Mylar, 1.0μF, 50V, 5%		1						
15	030-142		C7	CAPACITOR, Ceramic, 5000PF, 20%		1						
16	037-985		C9-12	CAPACITOR, Tantalum, 15μF, 20V, 10%		4						
17	037-991		C1,2	CAPACITOR, Tantalum, 22μF, 15V, 10%		2						
18	041-014		R16,19,21-24	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		6						
19	041-021		R8	RESISTOR, Fixed, 51K ohm, 1/2W, 5%		1						
20	041-245		R9-15	RESISTOR, Fixed, 1K ohm, 1/2W, 5%		7						
21	062-206		R1	RESISTOR, Fixed, 20K ohm, 1/2W, 5%		1						
22	041-950		R20	RESISTOR, Fixed, 16K ohm, 1/2W, 5%		1						
23	048-629		R4,5	RESISTOR, Metal Film, 4.99K ohm, 1/2W, 1%		2						
24	048-777		R3	RESISTOR, Metal Film, 16.9K ohm, 1/2W, 1%		1						
25	048-794		R6,7,18,25	RESISTOR, Metal Film, 1K ohm, 1/2W, 1%		4						
26	057-726		R17,26	RESISTOR, Metal Film, 17.4K ohm, 1/2W, 1%		2						
27	062-566		R2	RESISTOR, Metal Film, 37.4K ohm, 1/2W, 1%		1						
29	148-028		TP1	CONNECTOR, Printed Circuit, tip jack, white		1						
30	148-052		TP2	CONNECTOR, Printed Circuit, tip jack, black		1						
31	1366614-07			LABEL		1						
32	280-130		Q1-3	MOUNTING PAD, Transistor		3						
33	280-173		A1-5	MOUNTING PAD, Integrated Circuit		5						
35	586-024	μA709C	A4,5	INTEGRATED CIRCUIT, Op Amp		2						
36	586-261	LM302	A2,3	INTEGRATED CIRCUIT, Follower		2						
37	586-269	μA741C	A1	INTEGRATED CIRCUIT, Op Amp								

X1364565A

10-737/738

AMPEX



Ramp Generator Printed Wiring Assembly  
Dwg. No. 1364565



## 18 VOLT MODULE TRANSFORMER SUPPORT ASSEMBLY

CATALOG NO. 1366444

SHEET 1 OF 1

NHA 1366214

ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
1	1366446-01			SUPPORT, Transformer		1						
4	013-741			BRIDGE, Rectifier		3						
5	560-317		T1	TRANSFORMER		1						
6	581-037		VR1,2	DIODE, Zener, 20V, 50W		2						
7	173-628		E1-8	TERMINALS, Insulated, standoff		8						
9	087-388			SILICONE, Compound		A/R						
11	470-065			SCREW, Cap, hex socket, 4-40 x .750		6						
12	471-069			SCREW, Cross-Recessed, pan head, machine, 6-32 x .375		2						
14	498-341	UNC-3B		NUT, Self-Locking, 4-40		6						
15	498-342	UNC-3B		NUT, Self-Locking, 6-32		8						
17	501-625			WASHER, Plain, #6		2						
18	502-003			WASHER, Lock, spring, #6		2						

X1366444A

10-741/742

±12 VOLT REGULATOR MODULE ASSEMBLY				CATALOG NO.	1366218	SHEET 1 OF 2							
						NHA 1366052							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
1	1364428-01		L1,2	INDUCTOR, High Current, 12V module		2							
2	1364574-01			PRINTED WIRING ASSEMBLY, +5V or ±12V Regulator		1							
3	1364577-01			PRINTED WIRING ASSEMBLY, -5.2V or -12V Regulator		1							
4	1366216-01			CHASSIS, ±12V Regulator		1							
5	1366221			HARNESS, ±12V Regulator		1							
6	1366271-01			COVER, Channel		1							
7	1366272-01			SUPPORT, Inductor		1							
8	1366447-01			HEATSINK ASSEMBLY, ±12V		1							
9	1366448			SCHEMATIC		REF							
10	1367085-01			LEVER, Module Release		2							
11	1367085-02			LEVER, Module Release		2							
12	018-010			ADHESIVE, Contact, cement		A/R							
13	1367181-01			HANDLE, Module		2							
14	041-013		R13,16	RESISTOR, Fixed, 4.7K ohm, 1/2W		2							
15	043-284		R11,12	RESISTOR, Power, 50 ohm, 25W		2							
17	059-326		R14,15	RESISTOR, Power, .1 ohm, 25W		2							
19	063-081		C1,2	CAPACITOR, Aluminum, 13,000μF, 40V		2							
20	063-090		C1,2	CLAMP		2							
23	260-058			GROMMET, Bulk Material		A/R							
24	280-025			SPACER, Threaded, #6, .250 O.D. x .750		4							
25	502-006			CLAMP, Cable, .438 I.D.		13							
28	470-063			SCREW, Cap, hex socket, 4-40 x .500		8							
29	471-069			SCREW, Cross-Recessed, pan head, machine, 6-32 x .375		14							
30	471-071			SCREW, Cross-Recessed, pan head, machine, 6-32 x .500		11							
31	471-078			SCREW, Cross-Recessed, pan head, machine, 8-32 x .375		8							
32	471-080			SCREW, Cross-Recessed, pan head, machine, 8-32 x .500		2							
34	473-309			SCREW, Cross-Recessed, flat head, 82°, 6-32 x .312, undercut		8							
35	498-341	UNC-3B		NUT, Self-Locking, 4-40		18							
36	498-342	UNC-3B		NUT, Self-Locking, 6-32		16							
37	498-343	UNC-3B		NUT, Self-Locking, 8-32		2							
38	501-265			WASHER, Plain, #6		10							
39	502-016			WASHER, External Tooth, #10		2							
40	506-027			WASHER, "D", Cable Clamp, #6		13							
41	530-159			GUIDE, Printed Circuit Board		4							
42	581-033		CR9,10	INSULATOR, Shoulder		4							
44	166-278	MS34PM-1-S3	J5	BODY, Rectangular, plug, connector, 34 pin		1							
45	166-279	MS34PM-1-S5	J6	BODY, Rectangular, plug, connector, 34 pin		1							
46	166-278	MS34PM-1-S3	J7	BODY, Rectangular, plug, connector, 34 pin		-							
47	166-279	MS34PM-1-S5	J8	BODY, Rectangular, plug, connector, 34 pin		-							
48	139-061			CONNECTOR, Printed Circuit Board, 20 pin		2							

X1366218A

#12 VOLT REGULATOR MODULE ASSEMBLY					CATALOG NO. 1366218		SHEET 2 OF 2					
							NHA 1366052					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01						
50	171-007	1N3880	C1,2	LUG, Terminal, #10, ring tongue		6						
51	172-005		C1,2	LUG, Terminal, #10		4						
52	581-032		DIODE, Silicon		2							
53	172-004		LUG, Terminal, #4		4							
64	143-932		CLIP, Commoning		A/R							
67	166-178		CONTACT, Terminal Lug, crimp, 24-26 AWG		A/R							
68	166-259		CONTACT, Terminal Lug, crimp, 20-22 AWG		A/R							
70	166-200		CONTACT, Pin, 20-22 AWG		A/R							
72	166-226		CONTACT, Pin, 24-26 AWG		A/R							
73	166-227		CONTACT, Pin, 16-18 AWG		A/R							
75	CR569		WIRE, Stranded, insulated		A/R							
78	616-283		WIRE, Shielded, insulated, 22AWG, white, black		A/R							
80	616-404		WIRE, Shielded, insulated, 18 AWG, white/black/red		A/R							
82	617-422		WIRE, Shielded, insulated, 24 AWG, green		A/R							

X1366218A

+5 OR +12VOLT REGULATOR PRINTED WIRING ASSEMBLY					CATALOG NO. 1364574		SHEET 1 OF 2				
					NHA 1366225						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-03	-04				
1	1368459-01			PRINTED WIRING BOARD		1	-				
2	1368459-02			PRINTED WIRING BOARD		-	1				
3	1364576			SCHEMATIC, +12 Volt		REF	-				
4	1364610			SCHEMATIC, +5 Volt		-	REF				
5	52528-01			HANDLE, Printed Wiring Board		1	1				
7	1366614-03			LABEL		1	-				
8	013-358		VR1	DIODE, Zener, 5.1V		1	1				
9	013-650		CR4	DIODE		1	1				
10	013-678		CR5	DIODE		1	1				
11	013-689		CR1,2,3,6-11	DIODE		-	-				
12	013-983		VR2	DIODE, Zener, 5.6V		1	1				
13	1366614-05			LABEL		-	1				
14	014-364		Q2,3	TRANSISTOR		2	2				
16	030-094		C7-9	CAPACITOR, Ceramic, monolithic, 1μF, 25V, 20%		3	3				
17	037-117		C10,11	CAPACITOR, Tantalum, 150μF, 30V, 20%		-	2				
18	037-152		C10,11	CAPACITOR, Tantalum, 82μF, 50V, 20%		2	-				
19	037-164		C6,5	CAPACITOR, Tantalum, 1μF, 35V,10%		2	2				
20	037-649		C2,1	CAPACITOR, Tantalum, 47μF, 50V, 20%		2	2				
21	037-746		C3,4	CAPACITOR, Tantalum, 47μF, 20V,10%		2	2				
22	041-353		R19	RESISTOR, Fixed, 1.6K ohm, 1W, 5%		1	1				
23	041-008		R21	RESISTOR, Fixed, 1.5K ohm, 1/2W, 5%		1	1				
24	041-014		R20	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		1	1				
25	041-020		R2	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		1	1				
26	041-023		R16	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		1	1				
27	041-239		R17	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		1	1				
29	041-321		R4	RESISTOR, Fixed, 200K ohm, 1/2W, 5%		1	1				
30	041-455		R3	RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		1	1				
31	041-516		R22	RESISTOR, Fixed, 75 ohm, 1/2W, 5%		1	1				
32	041-529		R18	RESISTOR, Fixed, 20K ohm, 1/2W, 5%		1	1				
33	041-475		R1,15	RESISTOR, Fixed, 3K ohm, 1/2W, 5%		2	2				
34	049-362		R10,9	RESISTOR, Fixed, 3 ohm, 1/2W, 5%		2	2				
35	057-112		R5-8	RESISTOR, Metal Film, 4.7K ohm, 1/4W, 2%		4	4				
36	057-112		R11	RESISTOR, Metal Film, 4.7K, ohm, 1/4W, 2%		1	-				
37	057-129		R11	RESISTOR, Metal Film, 24K ohm, 1/4W, 2%		-	1				
38	148-027		TP1	CONNECTOR, Printed Circuit, tip jack, red		1	1				
39	148-028		TP2	CONNECTOR, Printed Circuit, tip jack, white		1	1				
40	602-012			CONNECTOR PLUG, Shorting, insulated, red		1	1				
41	143-981		J1-A, B, C	CONNECTOR, Printed Circuit, tip jack		3	3				
42	280-173		A1-3	MOUNTING PAD, Integrated Circuit		3	3				
43	280-998		Q1-3	MOUNTING PAD, Transistor		3	3				
46	580-167	2N5320	Q1	TRANSISTOR		1	1				

X1364574C

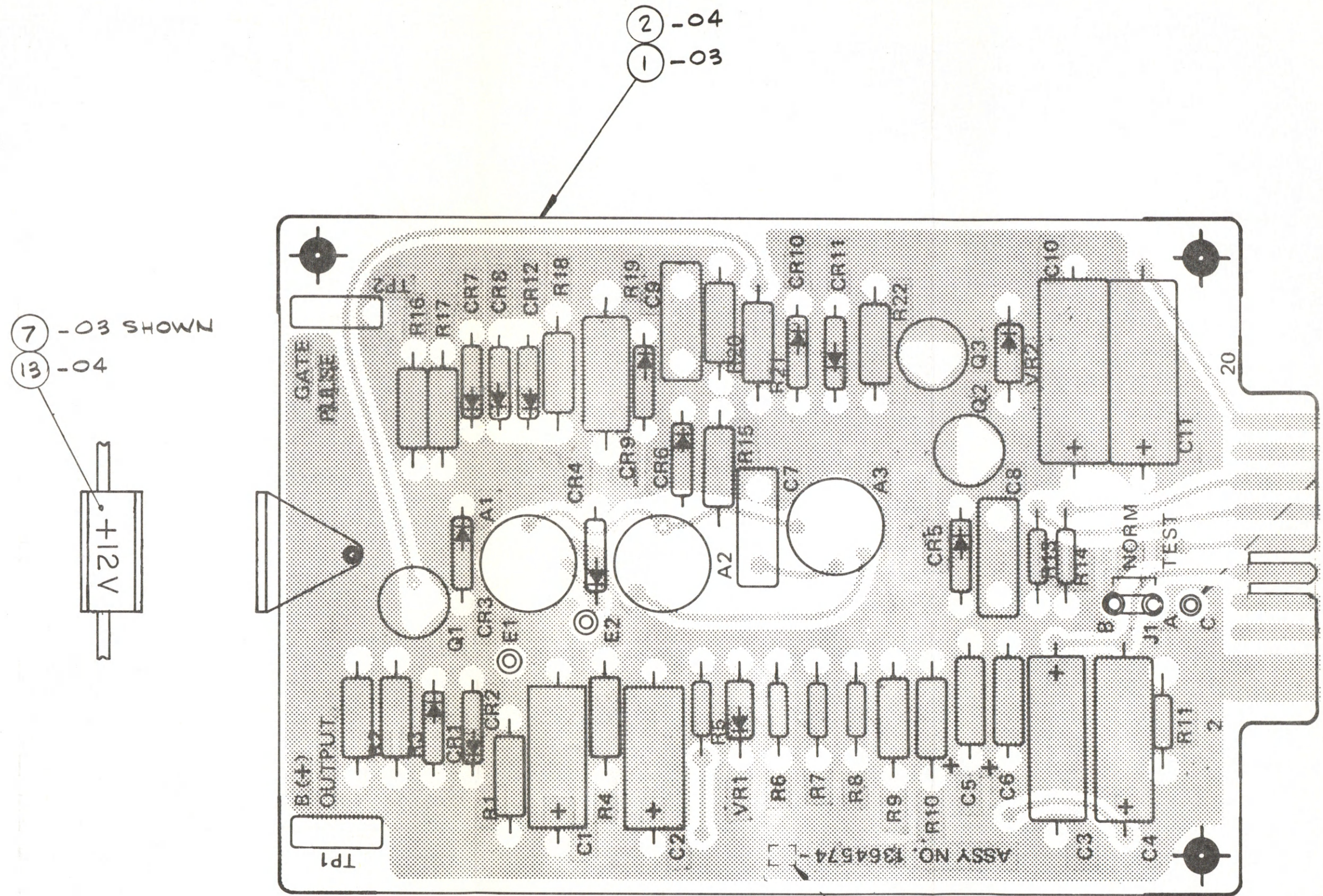


+5 OR +12 VOLT REGULATOR PRINTED WIRING ASSEMBLY					CATALOG NO. 1364574		SHEET 2 OF 2						
							NHA 1366225						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03	-04						
48	013-689	μA741C	CR1-3, 6-12	DIODE		10	10						
49	586-269		A1-3	INTEGRATED CIRCUIT		3	3						
51	057-096		R13	RESISTOR, Metal Film, 1K ohm, 1/4W, 2%		1	-						
52	057-096		R13	RESISTOR, Metal Film, 1K ohm, 1/4W, 2%		-	-						
53	057-110		R14	RESISTOR, Metal Film, 3.9K ohm, 1/4W, 2%		1	-						
54	057-116		R14	RESISTOR, Metal Film, 6.8K ohm, 1/4W, 2%		-	-						
55	057-098		R13	RESISTOR, Metal Film, 1.2K ohm, 1/4W, 2%		-	1						
56	057-113		R14	RESISTOR, Metal Film, 5.1K ohm, 1/4W, 2%		-	1						

X1364574C



AMPEX



+5V or +12V Regulator Printed Wiring Assembly  
Dwg. No. 1364574



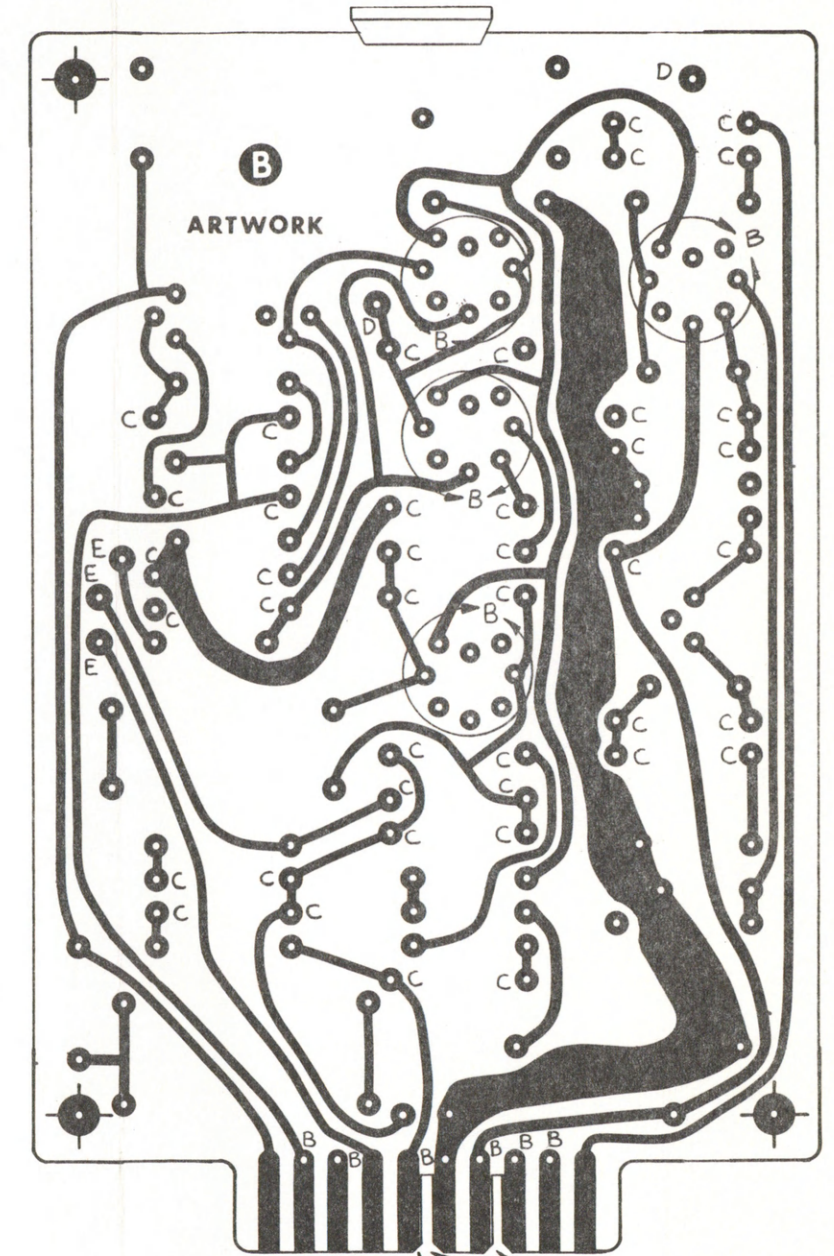
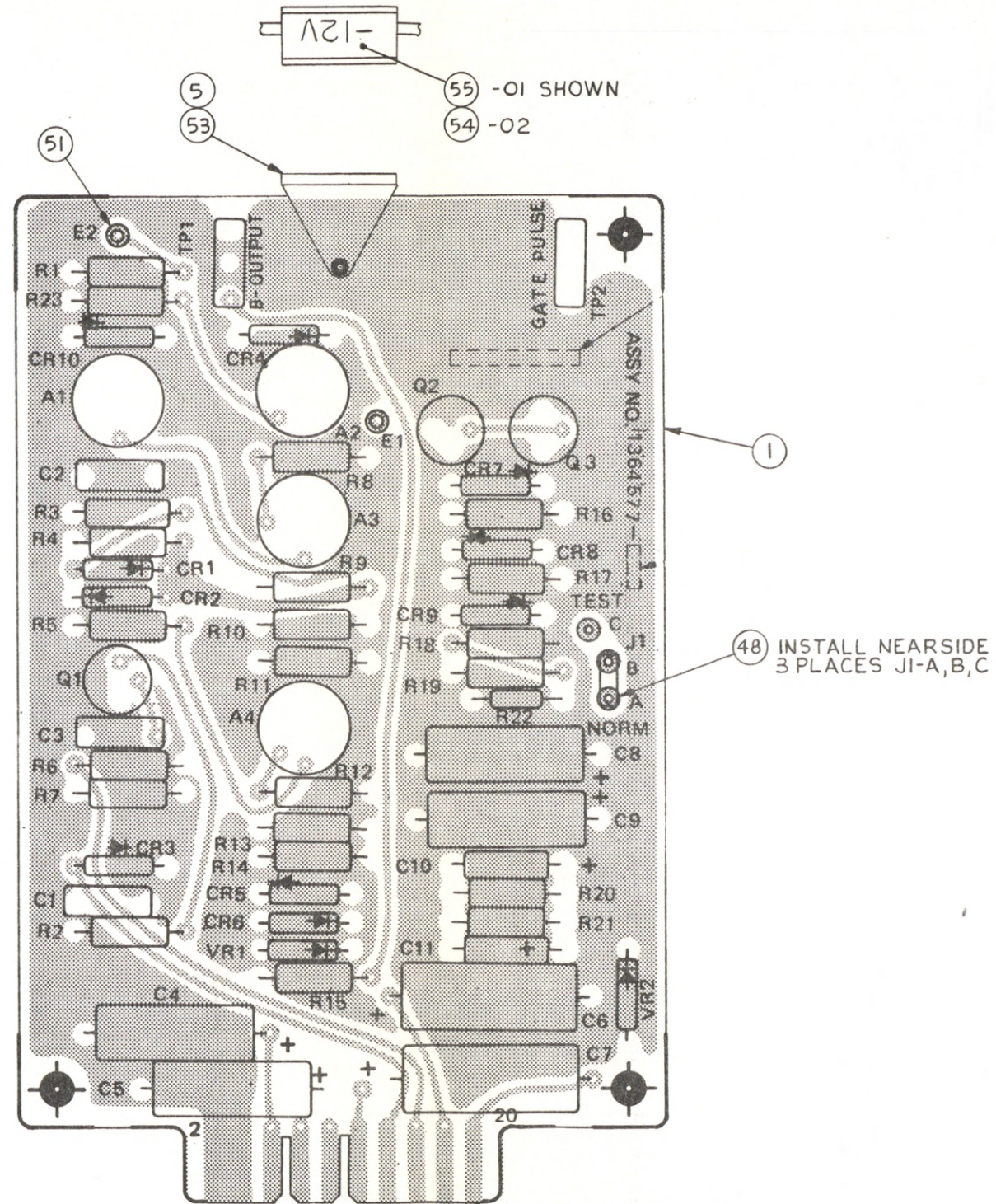
-5.2VOLT OR -12 VOLT REGULATOR PRINTED WIRING ASSEMBLY						CATALOG NO. 1364577		SHEET 1 OF 2					
								NHA 1366225					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01	-02						
3	1364579	2N5320 μA741C		SCHEMATIC, -12 Volt		REF	-						
4	1364612			SCHEMATIC, -5.2 Volt		-	REF						
5	52528-01			HANDLE, Printed Wiring Board		1	1						
7	013-358		VR1	DIODE, Zener, 5.1V		1	1						
8	013-650		CR4	DIODE		1	1						
9	013-678		CR3	DIODE		1	1						
10	013-689		CR1,2,5-10	DIODE		8	8						
11	013-983		VR2	DIODE, Zener, 5.6V		1	1						
14	014-094		Q1,3	TRANSISTOR		2	2						
16	030-094		C1-3	CAPACITOR, Ceramic, monolithic, 1μF, 25V, 20%		3	3						
18	037-117		C6,7	CAPACITOR, Tantalum, 150μF, 30V, 20%		-	2						
19	037-152		C6,7	CAPACITOR, Tantalum, 82μF, 50V, 20%		2	-						
20	037-164		C10,11	CAPACITOR, Tantalum, 1μF, 35V, 10%		2	2						
21	037-649		C8,9	CAPACITOR, Tantalum, 47μF, 50V, 20%		2	2						
22	037-746		C4,5	CAPACITOR, Tantalum, 47μF, 20V, 10%		2	2						
24	041-008		R16	RESISTOR, Fixed, 1.5K ohm, 1/2W, 5%		1	1						
25	041-014		R2,8-10	RESISTOR, Fixed, 10K ohm, 1/2W, 5%		4	4						
26	041-020		R18	RESISTOR, Fixed, 47K ohm, 1/2W, 5%		1	1						
27	041-023		R4	RESISTOR, Fixed, 100K ohm, 1/2W, 5%		1	1						
28	041-239		R3	RESISTOR, Fixed, 2.2K ohm, 1/2W, 5%		1	1						
30	041-321		R11	RESISTOR, Fixed, 200K ohm, 1/2W, 5%		1	1						
31	041-529		R5	RESISTOR, Fixed, 20K ohm, 1/2W, 5%		1	1						
32	041-455		R19	RESISTOR, Fixed, 6.2K ohm, 1/2W, 5%		1	1						
33	041-516		R17	RESISTOR, Fixed, 75 ohm, 1/2W, 5%		1	1						
34	041-475		R1,23	RESISTOR, Fixed, 3K ohm, 1/2W, 5%		2	2						
37	049-362		R20,21	RESISTOR, Fixed, 3 ohm, 1/2W, 5%		2	2						
38	057-129		R22	RESISTOR, Metal Film, 24K ohm, 1/4W, 2%		-	1						
39	057-112		R12-15	RESISTOR, Metal Film, 4.7K ohm, 1/4W, 2%		4	4						
40	057-112		R22	RESISTOR, Metal Film, 4.7K ohm, 1/4W, 2%		1	-						
41	148-028		TP2	CONNECTOR, Printed Circuit, tip jack, white		1	1						
42	148-030		TP1	CONNECTOR, Printed Circuit, tip jack, blue		1	1						
43	280-173		A1-4	MOUNTING PAD, Integrated Circuit		4	4						
44	280-998		Q1-3	MOUNTING PAD, Transistor		3	3						
45	580-167		Q2	TRANSISTOR		1	1						
46	586-269		A1-4	INTEGRATED CIRCUIT		4	4						
48	143-981		J1-A,B,C	CONNECTOR, Jack		3	3						
49	602-012		J1	CONNECTOR, Plug, shorting, red		1	1						
51	173-620		E1,2	TERMINAL, Turret, stud, swage		2	2						
54	1366614-06			LABEL		-	1						
55	1366614-04			LABEL		1	-						

X1364577B

-5.2 VOLT OR -12 VOLT REGULATOR PRINTED WIRING ASSEMBLY					CATALOG NO. 1364577		SHEET 2 OF 2					
							NHA 1366225					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-01	-02					
58	057-096		R7	RESISTOR, Metal Film, 1K ohm, 1/4W, 2%		1	1					
59	057-110		R6	RESISTOR, Metal Film, 3.9K ohm, 1/4W, 2%		1	-					
60	057-116		R6	RESISTOR, Metal Film, 6.8K ohm, 1/4W, 2%		-	1					



AMPEX



-02 ONLY -01 ONLY  
KEYING SLOTS  
CIRCUIT SIDE

-5.2V or -12V Regulator Printed Wiring Assembly  
Dwg. No. 1364577

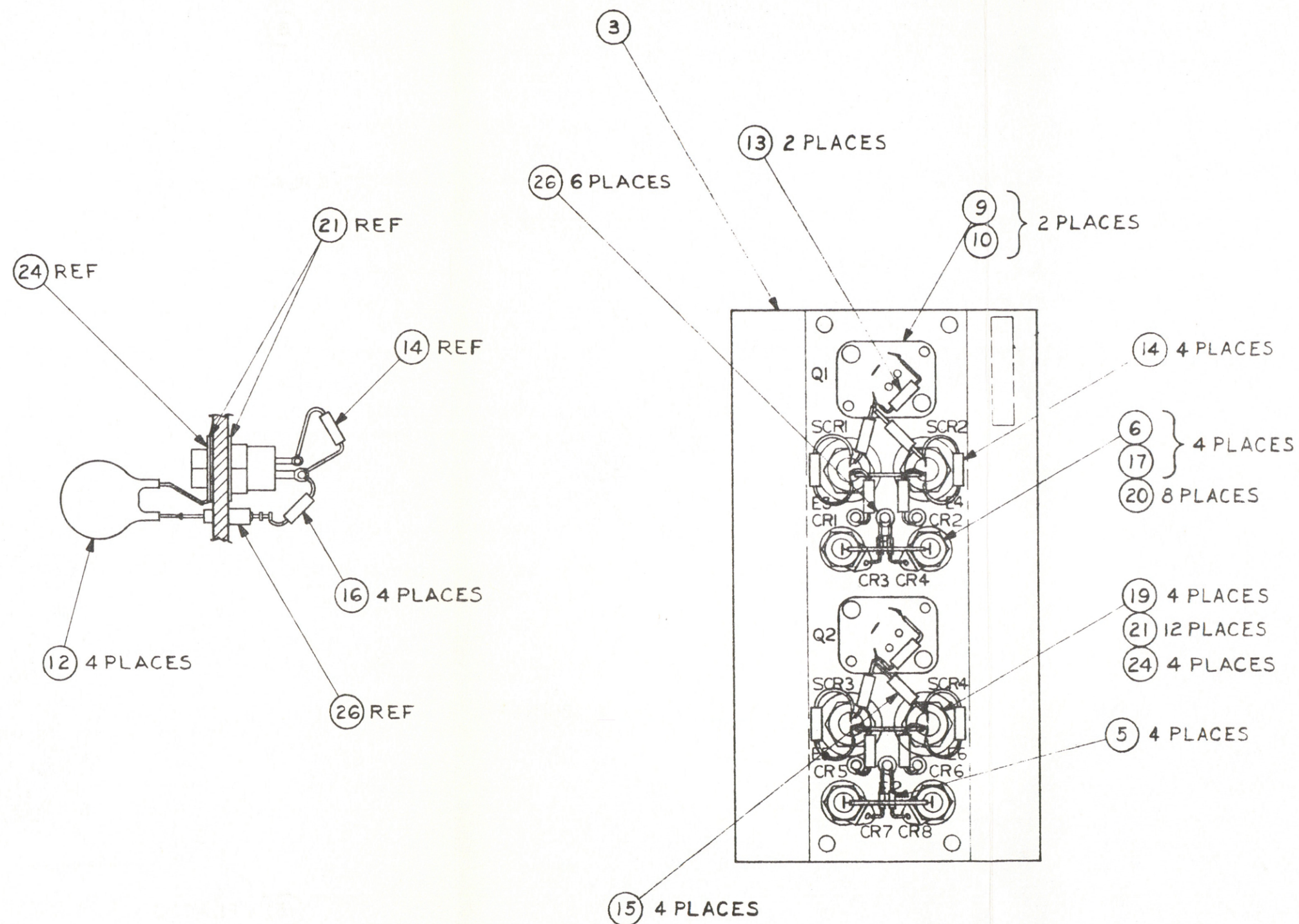


±12V HEATSINK ASSEMBLY						CATALOG NO. 1366447		SHEET 1 OF 1					
								NHA 1366218					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
1	1366448			SCHEMATIC		REF							
3	1366219-02			HEATSINK, ±12V Regulator		1							
5	013-678		CR3,4,7,8	DIODE, Silicon		4							
6	013-684		CR1,2,5,6	DIODE, Silicon		4							
9	014-833		Ref: Q1,2	KIT, Transistor Mounting		2							
10	014-947	2N3766	Q1,2	TRANSISTOR, Silicon, npn		2							
12	030-300		C1-4	CAPACITOR, Ceramic, .1μF,500V,±20%		4							
13	041-317		R1,6	RESISTOR, Fixed, 820 ohm,1/2W		2							
14	041-558		R4,5,9,10	RESISTOR, Fixed, 56 ohm,1/2W		4							
15	041-963		R2,3,7,8	RESISTOR, Fixed, 12 ohm,1/2W		4							
16	049-362		R11-14	RESISTOR, Fixed, 3 ohm,1/2W,5%		4							
17	172-009			TERMIANL LUG, Solder Ring Tongue		4							
19	580-247	2N3897	SCR1-4	TRANSISTOR, SCR		4							
20	581-033			INSULATOR, Shoulder		8							
21	581-034			INSULATOR, Shoulder		8							
24	172-036			TERMINAL LUG, Solder, ring tongue		4							
25	087-388			SILICONE COMPOUND	A/R								
26	187-054		E1-6	TERMINAL FEED THRU		6							

X1366447C

10-753/754

AMPEX



$\pm 12V$  Heatsink Assembly  
Dwg. No. 1366447

+5 VOLT REGULATOR MODULE ASSEMBLY					CATALOG NO. 1366225		SHEET 1 OF 2							
					NHA 1366052									
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION								
						-01								
1	1364427-01			INDUCTOR, 5 Volt Module		1								
2	1364574-02			PRINTED WIRING ASSEMBLY, ±12 Volt Regulator		1								
3	1366227-01			CHASSIS, ±5 Volt Regulator		1								
4	1366228-01			HARNESS, +5 Volt Regulator		1								
5	1366271-01			COVER, Channel		1								
6	1366449-01			HEATSINK ASSEMBLY, +5Volt		1								
7	1366450-01			SUPPORT, Inductor, -5V module		1								
8	1366451			SCHEMATIC		REF								
9	1367085-01			LEVER, Module Release		2								
10	1367085-02			LEVER, Module Release		2								
11	013-741		A1	BRIDGE, Rectifier		1								
12	041-013		R6,7	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		2								
13	059-326		R8	RESISTOR, Power, 0.1 ohm, 25W		1								
14	1367181-01			HANDLE, Module		2								
15	063-080		C1	CAPACITOR, Aluminum, 8300μF, 40V		1								
16	063-082		C2	CAPACITOR, Aluminum, 5700μF, 50V		1								
18	063-091		C1,2	CLAMP, Capacitor		2								
19	260-058			GROMMET, Bulk Material		A/R								
20	280-025			SPACER, Threaded, #6, .250 I.D. x .750		4								
21	302-049			CLAMP, Cable, .500 I.D., .204 diameter mounting hole		6								
22	470-063			SCREW, Cap, hex socket, 4-40 x .500		10								
23	471-062			SCREW, Cross-Recessed, pan head, machine, 4-40 x 3/8		2								
24	471-069			SCREW, Cross-Recessed, pan head, machine, 6-32 x 3/8		22								
25	471-080			SCREW, Cross-Recessed, pan head, machine, 8-32 x .500		4								
26	473-309			SCREW, Cross-Recessed, flat head, 82°, machine, 6-32 x .312, undercut		8								
27	498-341	UNC-3B		NUT, Self-Locking, 4-40		14								
28	498-342	UNC-3B		NUT, Self-Locking, 6-32		16								
29	501-625			WASHER, Plain, #6		4								
30	506-013			WASHER, "D", cable clamp, #6		6								
31	530-159			GUIDE, Printed Circuit Board		2								
32	581-032	1N3880	CR5	DIODE, Silicon		1								
33	581-033		CR5	INSULATOR, Shoulder		2								
35	139-061		J1	CONNECTOR, Printed Wiring Board, 20 pin		1								
36	166-280	MS34PM-1-S7	J12	BODY, Rectangular, plug connector, 34 pin		1								
37	166-277	MS34PM-1-S1	J11	BODY, Rectangular, plug connector, 34 pin		1								
39	173-628			TERMINAL STUD, Turret, 6-32		2								
40	171-007			LUGS, Terminal, #10, ring tongue		5								
41	172-005			LUGS, Terminal, #10		4								
42	172-004			LUGS, Terminal, #4		2								
64	143-932			CLIP, Commoning		A/R								
67	166-178			CONTACT, Terminal Lug, crimp, 24-26 AWG		A/R								

X1366225A



+5 VOLT REGULATOR MODULE ASSEMBLY					CATALOG NO. 1366225		SHEET 2 OF 2						
							NHA 1366052						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
68	166-259			CONTACT, Terminal Lug, crimp, 20-22 AWG		A/R							
70	166-200			CONTACT, Pin, 20-22 AWG		A/R							
72	166-226			CONTACT, Pin, 24-26 AWG		A/R							
73	166-227			CONTACT, Pin, 16-18 AWG		A/R							
75	CD569			WIRE, Stranded, insulated		A/R							
76	613-065			WIRE, Shielded, insulated, 20 AWG, white		A/R							
78	616-283			WIRE, Shielded, insulated, 22 AWG, white/black		A/R							
80	616-404			WIRE, Shielded, insulated, 18 AWG, white/black/red		A/R							
82	617-422			WIRE, Shielded, insulated, 24 AWG, green		A/R							

X1366225A

10-758

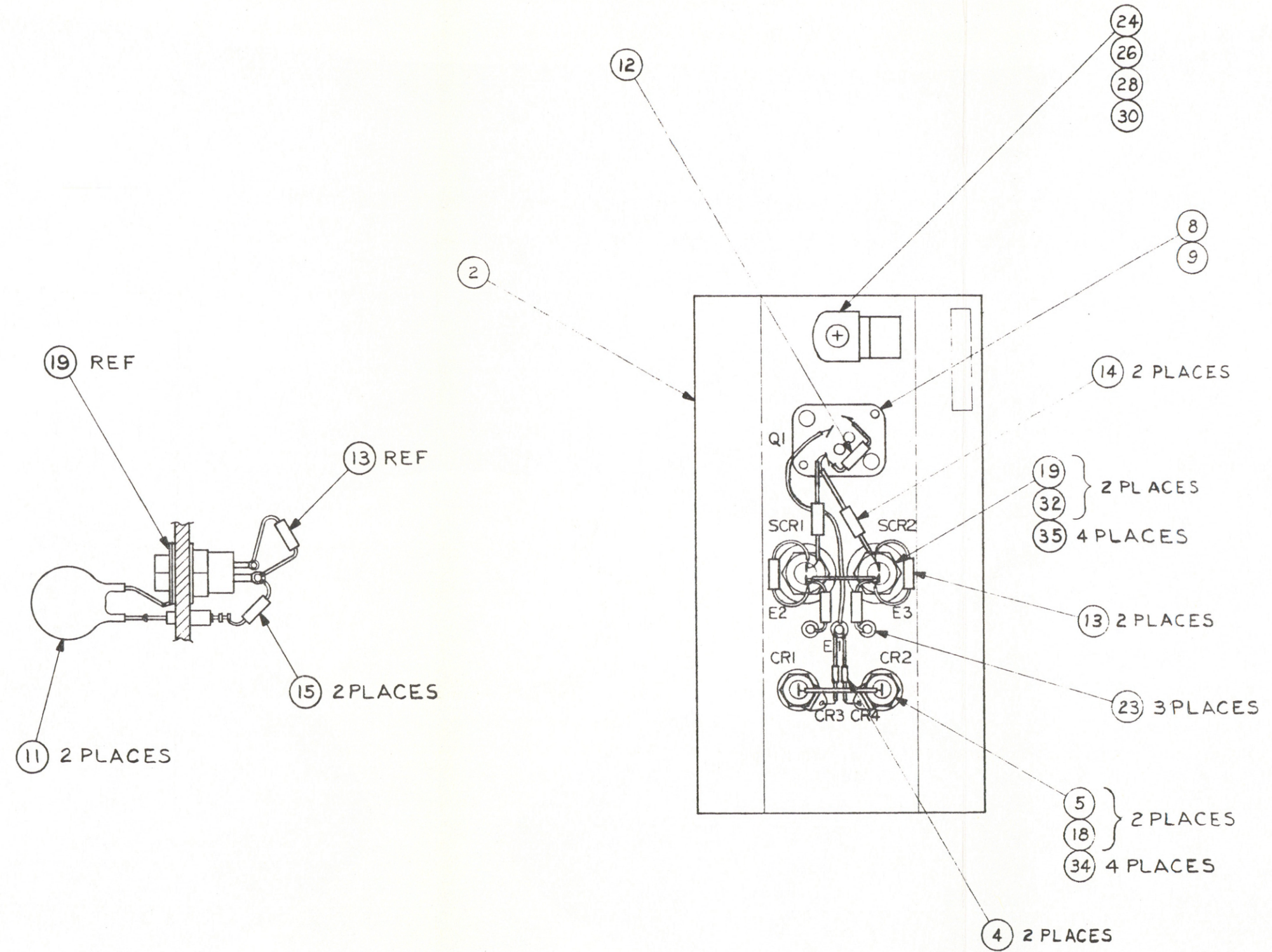
±5 VOLT HEATSINK ASSEMBLY					CATALOG NO. 1366449		SHEET 1 OF 1					
							NHA 1366753					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION						
						-02						
2	1366226-02	2N3766	Q1	HEATSINK, ±5V Regulator		1						
4	013-678			DIODE, Silicon		2						
5	013-684			DIODE, Silicon		2						
8	014-833			KIT, Power Transistor Mounting		1						
9	014-947			TRANSISTOR, Silicon, NPN		1						
11	030-300			C1,2		CAPACITOR, Ceramic, .1μF, 500V, ±20%	2					
12	041-317			R1		RESISTOR, Fixed, 820 ohm, 1/2W, 5%	1					
13	041-558			R4,5		RESISTOR, Fixed, 56 ohm, 1/2W, 5%	2					
14	041-963			R2,3		RESISTOR, Fixed, 12 ohm, 1/2W, 5%	2					
15	049-362			R6,7		RESISTOR, Fixed, 3 ohm, 1/2W, 5%	2					
16	087-388					SILICONE, Compound	A/R					
18	172-009					TERMINAL LUG, Solder, ring tongue	2					
19	172-036					TERMINAL LUG, Solder, ring tongue	2					
23	187-054			E1-3		TERMINAL, Feed Thru	3					
24	302-036					CLAMP, Cable, .375 I.D.	1					
26	471-071		SCREW, Cross-Recessed, machine, pan head, 6-32 x .500	1								
28	498-342	UNC-38	NUT, Self-Locking, 6-32	1								
30	506-013		WASHER, "D", #6	1								
32	580-247	2N3897	SCR1,2	THYRISTOR, SCR	2							
34	581-033		INSULATOR, Shoulder	4								
35	581-034		INSULATOR, Shoulder	4								

XL366449C

10-759/760

AMPEX

FAR SIDE



±5V Heatsink Assembly  
Dwg. No. 1366449

MOTOR DRIVE AMPLIFIER MODULE ASSEMBLY						CATALOG NO. X1366231		SHEET 1 OF 1			
						NHA		1366052			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-02					
1	1364257-03			MOTOR DRIVE AMPLIFIER, Printed Wiring Assembly		1					
2	1364259			SCHEMATIC		REF					
3	1366232-02			CHASSIS, Motor Drive Assembly		1					
4	1366233-01			BRACKET, Heatsink		1					
5	1366234			HARNESS		REF					
6	1367050-01			MOTOR DRIVE AMPLIFIER, Heatsink Assembly		1					
7	1368248-01			GROUND STRAP		1					
8	1367211-01			COVER, Motor Drive Amplifier		1					
9	1367641-01			GUIDE, Printed Wiring Assembly		1					
10	1367181-03			HANDLE, Module		2					
11	1369107-01			HANDLE, Motor Drive Amplifier		2					
12	018-019			ADHESIVE		A/R					
13	020-373		K1	RELAY		1					
14	030-963		C1	CAPACITOR, Ceramic, .1μF, 100V,10%		1					
15	1369107-02			HANDLE, Motor Drive Amplifier		2					
17	143-804		J3	CONNECTOR, Printed Circuit Receptacle, 56 pin		1					
18	018-027			ADHESIVE, Thread Locking		A/R					
20	150-010		K1	SOCKET, Relay		1					
22	260-052			GROMMET, Bulk Material		A/R					
23	166-200			CONTACT, Pin, 20-22 AWG		11					
24	166-226			CONTACT, Pin, 24-26 AWG		22					
25	166-227			CONTACT, Pin, 16-18 AWG		21					
26	166-278		J1	CONNECTOR, Plug		1					
27	166-280		J2	CONNECTOR, Plug		1					

X1366231B



MOTOR DRIVE AMPLIFIER PRINTED WIRING ASSEMBLY						CATALOG NO. X1364257		SHEET 1 OF 2					
								NHA 1366231					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
6	013-689	2N3740	CR5--10,15-20, 26-32,37-43,25	DIODE		27							
7	013-835		VR1	DIODE, Zener, 43V		1							
10	014-247		Q4,6,10,12,16, 18,23,25,27,30, 32,33,35,36	TRANSISTOR		14							
11	014-364		Q26,29	TRANSISTOR		2							
12	014-383		Q28,31	TRANSISTOR		2							
13	014-597		Q34	TRANSISTOR, Dual		1							
14	014-614		Q1,2,7,8,13, 14,20,21	TRANSISTOR		8							
15	014-678		Q19	TRANSISTOR		1							
16	014-712		Q34	MOUNTING PAD, 6 Pin		1							
17	014-720		Q3,5,9,11,15, 17,22,24	TRANSISTOR		8							
18	055-166		C18-25	CAPACITOR, Mylar, .001μF, 50V, 5%		8							
19	030-963		C15,16	CAPACITOR, Ceramic, .1μF, 100V, 10%		2							
20	037-620		C27,28	CAPACITOR, Tantalum, 100μF, 20V, 10%		2							
23	035-817		C17	CAPACITOR, Mylar, .015μF, 50V, 5%		1							
25	037-181		C11,12	CAPACITOR, Tantalum, 47μF, 35V, 10%		2							
26	037-254		C1-8	CAPACITOR, Tantalum, 2.2μF, 50V, 10%		8							
27	041-278		R45	RESISTOR, Comp., 2.7K ohm, 1/2W, 5%		1							
28	041-007		R47	RESISTOR, Comp., 750 ohm, 1/2W, 5%		1							
30	041-003		R2,4,12,14,22, 24,32,36	RESISTOR, Comp., 100 ohm, 1/2W, 5%		8							
31	041-014		R7,9,17,19,27, 29,33,40,42	RESISTOR, Comp., 10K ohm, 1/2W, 5%		9							
32	041-246		R65	RESISTOR, Comp., 82K ohm, 1/2W, 5%		1							
33	041-102		R34,38	RESISTOR, Comp., 1K ohm, 1W, 5%		2							
35	041-283		R44	RESISTOR, Comp., 47 ohm, 1/2W, 5%		1							
36	041-303		R62	RESISTOR, Comp., 3.9K ohm, 1/2W, 5%		1							
37	041-331		R61	RESISTOR, Comp., 3.3K ohm, 1/2W, 5%		1							
39	041-405		R63	RESISTOR, Comp., 1.2K ohm, 1/2W, 5%		1							
40	041-420		R8,10,18,20,28, 30,41,43	RESISTOR, Comp., 12K ohm, 1/2W, 5%		8							
41	041-529		R5,6,15,16,25, 26,37,39	RESISTOR, Comp., 20K ohm, 1/2W, 5%		8							
42	041-690		R48	RESISTOR, Comp., 1.1K ohm, 2W, 5%		1							
43	037-152		C9,26	CAPACITOR, Tantalum, 82μF, 50V, 20%		2							
44	048-259		R54	RESISTOR, Metal Film, 1K ohm, 1/4W, 1%		1							
46	057-453		R50-53	RESISTOR, Metal Film, 4.99K ohm, 1/4W, 1%		4							
47	148-052		TP9,13	CONNECTOR, Printed Circuit, tip jack		2							
48	057-920		R49	RESISTOR, Metal Film, 11K ohm, 1/4W, 1%		1							
49	048-931		R46	RESISTOR, Metal Film, 69.8 ohm, 1/4W, 1%		1							
50	148-028		TP1-8,10-12	CONNECTOR, Printed Circuit, tip jack		11							
52	280-130		Q28,31	MOUNTING PAD, Transistor		2							
53	280-498			SPACER, Threaded, swage, 4-40		2							

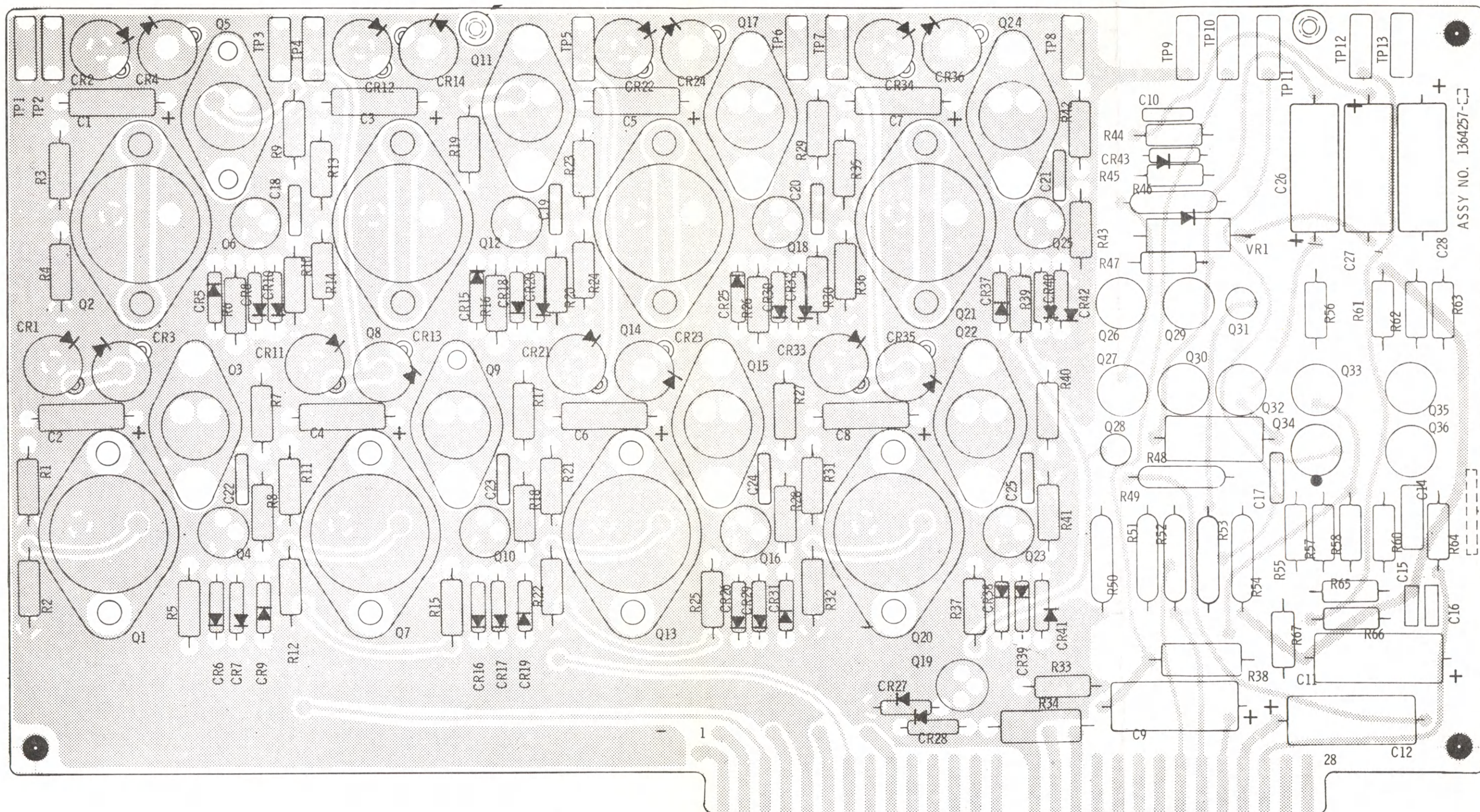
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MOTOR DRIVE AMPLIFIER PRINTED WIRING ASSEMBLY						CATALOG NO. X1364257		SHEET 2 OF 2					
								NHA 1366231					
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-03							
55	041-002	1N4998	R1,3,11,13,21,23,31,35	RESISTOR, Composition, 10 ohm, 1/2W, 5%		8							
56	471-061			SCREW, Machine, cross-recessed, pan head, 4-40 x .312		16							
57	471-070			SCREW, Machine, cross-recessed, pan head, 6-32 x .438		16							
58	041-245		R55,57,58,60	RESISTOR, Composition, 1K ohm, 1/2W, 5%		4							
59	496-004			NUT, Assembled Washer, 4-40		16							
60	496-005			NUT, Assembled Washer, 6-32		16							
61	501-188			WASHER, Plain, #6		16							
62	501-169			WASHER, Plain, #4		16							
64	503-048			WASHER, Plain, nylon, #6		16							
65	503-993			WASHER, Plain, nylon, #4		16							
66	041-013		R66	RESISTOR, Composition, 4.7K ohm, 1/2W, 5%		1							
67	041-309		R67	RESISTOR, Composition, 8.2K ohm, 1/2W, 5%		1							
68	581-028		CR1-4,11-14,21-24,33-36	DIODE		16							
70	041-001		R56,64	RESISTOR, Composition, 5.1K ohm, 1/2W, 5%		2							
71	035-734		C10,14	CAPACITOR, Mylar, .01μF, 50V, 5%		2							

X1364257E



AMPEX



ASSY NO. 1364257-1

Motor Drive Amplifier Printed Wiring Assembly  
Dwg. No. 1364257



MDA HEATSINK ASSEMBLY						CATALOG NO. 1367050		SHEET 1 OF 1			
								NHA 1366231			
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
1	1366204-01	2N3766		HEATSINK, MDA		1					
3	1367603-01			STUD, Fastener		2					
4	014-833		Q2	KIT, Power Transistor Mounting		1					
5	014-947		Q2	TRANSISTOR		1					
7	014-614		Q1,8,10	TRANSISTOR		3					
8	014-627		Q4,6,9	TRANSISTOR, Power		3					
9	014-660		Q5	TRANSISTOR, Power		1					
10	580-245	2N4399	Q3,7	TRANSISTOR		2					
12	030-963		C1,2,5-7	CAPACITOR, Ceramic, plate, .1μF,100V, 10%		5					
16	037-181		C4	CAPACITOR, Tantalum, 47μF,35V,10%		1					
17	064-015		C3	CAPACITOR, Ceramic, plate, .047μF, 100V,10%		1					
18	041-003		R9,10	RESISTOR, Fixed, 100 ohm,1/4W,5%		2					
19	041-245		R1,4	RESISTOR, Fixed, 1k ohm,1/2W,5%		2					
22	041-453		R3	RESISTOR, Fixed, 470 ohm, 2W,5%		1					
25	044-937		R6,7	RESISTOR, Wirewound power .05 ohm,5W, 3%		2					
29	059-370		R2,5,8	RESISTOR, Wirewound power, .5 ohm, 20W,3%		3					
34			S1	SWITCH, Thermal		1					
37	173-626		E1-12	TERMINAL STUD, Turret		12					
38	280-031		Q1,3-10	MOUNTING PAD, Transistor		9					
39	580-301		Q1,3-10	SOCKET, Transistor		9					

X1367050A

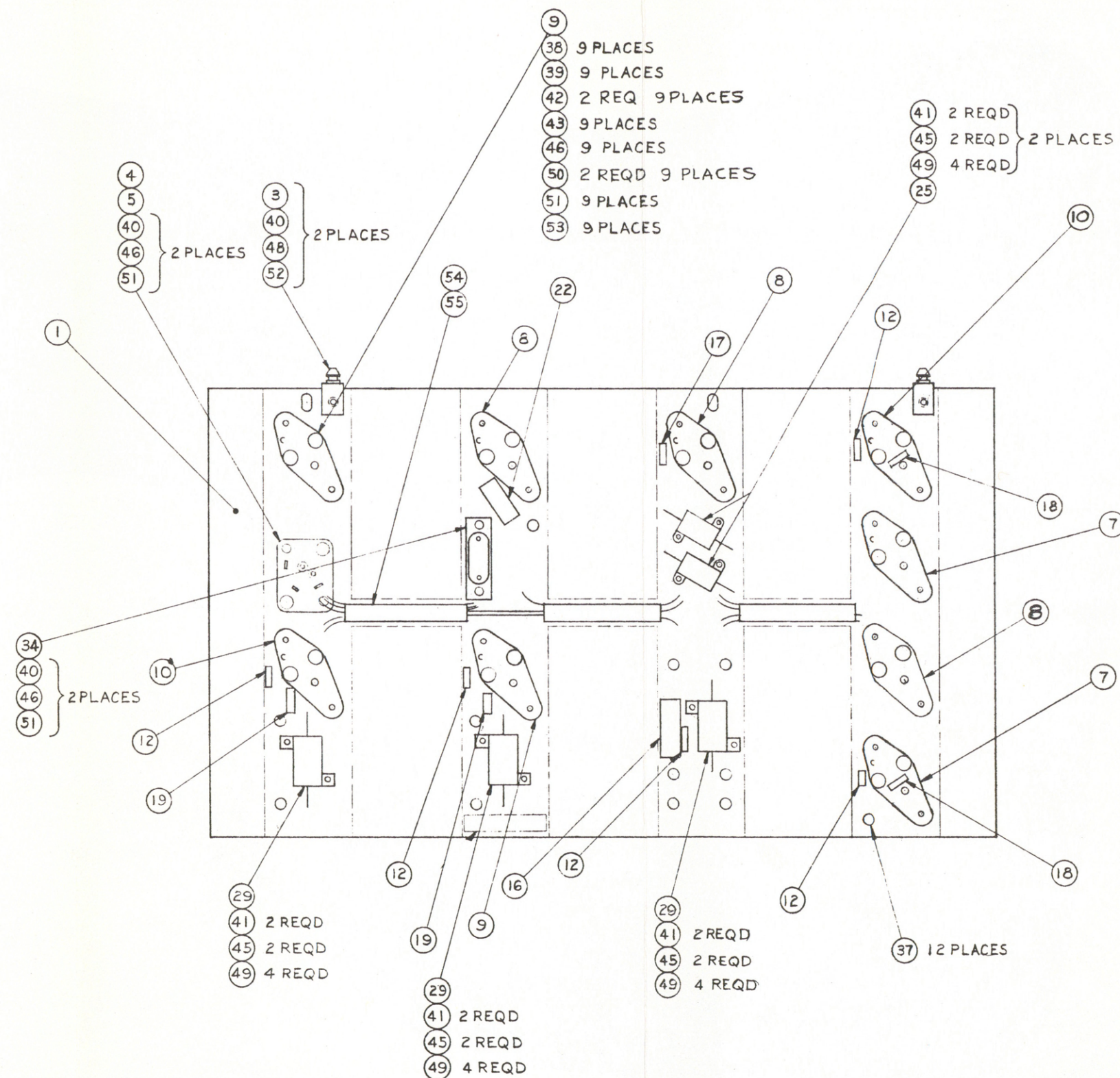
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**AMPEX**


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MDA Heatsink Assembly  
Dwg. No. 1367050

-5.2 VOLT REGULATOR MODULE ASSEMBLY					CATALOG NO. 1366753	SHEET 1 OF 2					
					NHA 1366052						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
1	1364427-01			INDUCTOR, 5V Module		1					
2	1364577-02			PRINTED WIRING ASSEMBLY, -5V Regulator		1					
3	1366227-01			CHASSIS, ±5V Regulator		1					
4	1366271-01			COVER, Channel		1					
5	1366449-01			HEATSINK ASSEMBLY, +5V		1					
6	1366450-01			SUPPORT, Inductor, -5V module		1					
7	1366754-01			HARNESS, -5.2V Regulator		1					
8	1366755			SCHEMATIC		REF					
10	013-741			BRIDGE RECTIFIER		1					
11	018-010			ADHESIVE, Contact, cement		A/R					
12	041-013		R6,7	RESISTOR, Fixed, 4.7K ohm, 1/2W, 5%		2					
13	059-326		R8	RESISTOR, Power, 0.1 ohm, 25W		1					
14	063-080		C2	CAPACITOR, Aluminum, 8300μF, 40V		1					
15	063-082		C1	CAPACITOR, Aluminum, 5700μF, 50V		1					
16	063-091		C1,2	CLAMP, Cap		2					
17	260-058			GROMMET, Bulk Material		A/R					
18	280-025			SPACER, Threaded, #6, .250 O.D. x .750		4					
19	302-049			CLAMP, Cable, .500 I.D., .204 diameter mounting hole		6					
20	470-063			SCREW, Cap, socket, 4-40 x .500		10					
21	471-062			SCREW, Cross-Recessed, pan head, machine, 4-40 x 3/8		2					
22	471-069			SCREW, Cross-Recessed, pan head, machine, 6-32 x 3/8		22					
23	471-080			SCREW, Cross-Recessed, pan head, machine, 8-32 x .500		4					
24	473-309			SCREW, Cross-Recessed, flat head, 82°, machine, 6-32 x .312, undercut		8					
25	501-625			WASHER, Plain, #6		4					
26	506-013			WASHER, "D", cable clamp, #6		6					
28	530-159			GUIDE, Printed Circuit Board		2					
29	581-032	1N3880	CR5	DIODE, Silicon		1					
30	581-033		CR5	INSULATOR, Shoulder		2					
33	139-061		J1	CONNECTOR, Printed Wiring Board, 20 pin		1					
34	166-279	MS34PM-1-S5	J10	BODY, Rectangular, plug connector, 34 pin		1					
35	166-277	MS34PM-1-S1	J9	BODY, Rectangular, plug connector, 34 pin		1					
37	173-628			TERMINALS, Stud, turret, 6-32		2					
38	172-004			LUGS, Terminal, #4		2					
39	172-005			LUGS, Terminal, #10		4					
40	171-007			LUGS, Terminal, #10, ring tongue		5					
41	501-625			WASHER, Plain, #6		6					
43	498-341	UNC-3B		NUT, Self-Locking, 4-40		12					
44	498-342	UNC3B		NUT, Self-Locking, 6-32		8					
46	471-071			SCREW, Cross-Recessed, pan head, machine, 6-32 x .500		2					
48	1367085-01			LEVER, Module Release		2					
49	1367085-02			LEVER, Module Release		2					
50	1367181-01			HANDLE, Module		2					

X1366753A

10-773

-5.2 VOLT REGULATOR MODULE ASSEMBLY				CATALOG NO.	1366753	SHEET 2 OF 2							
						NHA 1366052							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
64	143-932			CLIP, Commoning		A/R							
67	166-178			CONTACT, Terminal Lug, crimp, 24-26 AWG		A/R							
68	166-259			CONTACT, Terminal Lug, crimp, 20-22 AWG		A/R							
70	166-200			CONTACT, Pin, 20-22 AWG		A/R							
72	166-226			CONTACT, Pin, 24-26 AWG		A/R							
73	166-227			CONTACT, Pin, 16-18 AWG		A/R							
75	CD569			WIRE, Stranded, insulated		A/R							
76	613-065			WIRE, Shielded, insulated, 20 AWG, white		A/R							
78	616-283			WIRE, Shielded, insulated, 22 AWG, white/black		A/R							
80	616-404			WIRE, Shielded, insulated, 18 AWG, white/black/red		A/R							
82	617-422			WIRE, Shielded, insulated, 24 AWG, green		A/R							

X1366753A

10-774



**MISCELLANEOUS PARTS KIT**



MISCELLANEOUS PARTS KIT					CATALOG NO. 1365985	SHEET 1 OF 1					
					NHA 1366000						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION					
						-01					
1	1364417			CARD, Extender, 56 pin, 8 coaxial, 50 ohm, swivel, shielded		1					
2	1366456			POWER SUPPLY, 20 Pin, straight		1					
3	1366457			AUDIO, 30 Pin, straight		1					
4	1366458			CARD, Extender, 86 pin, swivel		1					
5	1366909			POWER SUPPLY, 44 Pin, straight		1					
6	1366968			DRUM TACH, 36 Pin, straight		1					
7	1367486			CARD, Extender, 56 pin, 8 coaxial, 75 ohm, swivel, shielded		1					
8	1367487			CARD, Extender, 56 pin, swivel		1					
9	1367488			VIDEO SUB-BASE, RF Extenders, 36 pins ea., straight		1					
10	1368089			PRINTED WIRING ASSEMBLY, Card Extender, motor drive amplifier		1					
11	1367489			MOTOR DRIVE AMPLIFIER, Extender Cable No. 1, input, J1		1					
12	1367490			MOTOR DRIVE AMPLIFIER, Extender Cable No. 2, output, J2		1					
13	1368184			PRINTED WIRING ASSEMBLY, Card Extender Clock Readout with Memory		1					
14	28050-04			REEL, Empty Magnetic Tape, 12.5"		1					
15	4010820-10			DEMAGNETIZER HEAD		1					
16	1212625-01			DISC, Centering		1					
17	1212626-01			RING ASSEMBLY, Switch Actuator		1					
18	1212627-01			SWITCH ACTUATOR & REEL ASSEMBLY INSTRUCTIONS		1					
19	1368464			DIAL INDICATOR ASSEMBLY		1					
21	087-199			LACQUER, Touch Up		1					
22	087-200			LACQUER, Touch Up		1					
23	087-201			LACQUER, Touch Up		1					
24	087-705			LACQUER, Touch Up		1					
26	140-009			CONNECTOR, Circular Plug, 2 socket		2					
27	144-003			CONNECTOR, Audio Plug, 3 socket		2					
28	144-009			CONNECTOR, Rectangular Plug, 12 socket		2					
29	145-370			CONNECTOR, Circular Plug, 3 pins		1					
30	145-541			CONNECTOR		1					
32	360-012			WRENCH, Hex Key, .050		1					
33	360-013			WRENCH, Hex Key, 5/64		1					
34	360-014			WRENCH, Hex Key, 3/32		1					
35	1809009			INSTRUCTION MANUAL		2					
36	1368671-01			GUIDE RETRACTING WRENCH		1					

X1365985A

10-775/776

**EDITOR**

EDITOR CONTROL PANEL ASSEMBLY					CATALOG NO. X1368054	SHEET 1 OF 1							
						NHA 1367703							
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
1	1367342			SCHEMATIC		REF							
2	1366473-01			CHASSIS		1							
3	1366474-02			OVERLAY		1							
4	1367088-01			BRACKET, Connector Mounting		1							
6	1368658-01		S5	SWITCH, Rotary, 4 pole, 5 position		1							
8	058-420		R1	RESISTOR, Variable, multi-turn, 5K		1							
10	121-048		S1-4	SWITCH, Pushbutton		4							
12	169-613	Burndy MS-50-RM-58	J2	CONNECTOR		1							
14	121-047			DISPLAY SCREEN, Full		3							
15	121-046			DISPLAY SCREEN, Split		1							
17	121-086			FILTER, Full Screen, red		2							
18	121-100			FILTER, Full Screen, green		1							
19	121-097			FILTER, Half Screen, green		1							
20	121-044			FILTER, Half Screen, blue		1							
21	166-200			CONTACT PIN, 22-20 Wire Size		A/R							
22	6000004-20			KNOB		1							
23	166-226			CONTACT PIN, 26-24 Wire Size		A/R							
24	1366175-03			LENS, Front, engraved		1							
25	1366175-04			LENS, Front, engraved		1							
26	1366175-05			LENS, Front, engraved		1							
27	1366175-17			LENS, Front, engraved		1							
28	060-391			LAMP, Incandescent		8							
29	600-232			SLEEVING, Flexible		A/R							
30	470-010			SCREW, Cap, hex, 4-40 x .375		4							
31	496-004			NUT, Assembled Washer, 4-40		8							
32	471-338			SCREW, Flat Head, 6-32 x .500									
34	CD569			WIRE, 24 AWG		A/R							
35	614-931			WIRE, Shielded, 24 AWG		A/R							
36	616-283			CABLE, Shielded & Jacketed, 2 conductor, 22 AWG, black, red		A/R							
37	615-004			WIRE, Bare, solid, 24 AWG		A/R							

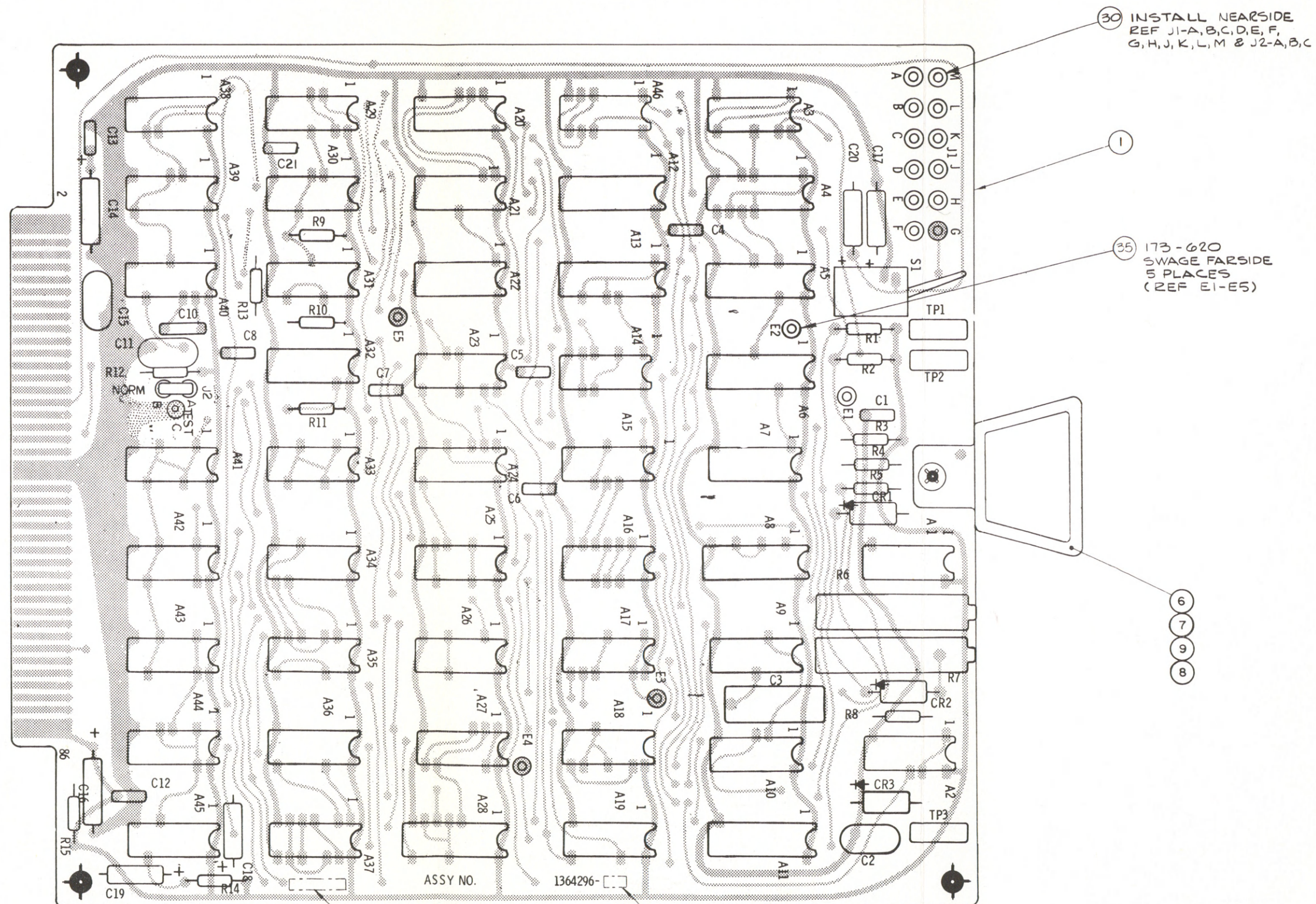
X1368054C

EDITOR PRINTED WIRING ASSEMBLY (MODULE 153)					CATALOG NO. X1364296		SHEET 1 OF 1						
							NHA 1366025						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-02							
3	1364298			SCHEMATIC		REF							
12	013-689		CR1-3	DIODE		3							
14	030-963		C4-8,12,13,21	CAPACITOR, Ceramic, .1μF, 100V, 10%		8							
15	030-966		C1	CAPACITOR, Ceramic, .01μF, 100V, 10%		1							
17	034-177		C11,15	CAPACITOR, Mica, 100PF, 500V, 5%		2							
18	037-985		C14,16	CAPACITOR, Tantalum, 15μF, 20V, 10%		2							
19	055-133		C10	CAPACITOR, Mylar, .0022μF, 50V, 5%		1							
20	055-193		C3	CAPACITOR, Mylar, .27μF, 50V, 5%		1							
21	056-292		C2	CAPACITOR, Mica, 500PF, 500V, 5%		1							
22	037-164		C17-20	CAPACITOR, Tantalum, 1μF, 35V, 10%		4							
23	041-414		R13-15	RESISTOR, Comp., 2.2K ohm, 1/4W, 5%		3							
24	041-410		R1,2,9-12	RESISTOR, Comp., 1K ohm, 1/4W, 5%		6							
25	041-507		R4,5,8	RESISTOR, Comp., 5.6K ohm, 1/4W, 5%		3							
26	041-653		R3	RESISTOR, Comp., 39 ohm, 1/4W, 5%		1							
27	058-169		R6,7	RESISTOR, Variable, 25K ohm, 1W, 10%		2							
30	143-981		J2A,B,C J1-A,B,C,D,E, F,G,H,J,K,L,M	CONNECTOR, Tip Jack, printed circuit		15							
33	148-028		TP1-3	CONNECTOR, Tip Jack, white		3							
35	173-620		E1-5	TERMINAL STUD, Turret		5							
36	602-012			PLUG, Shorting, red		1							
38	586-152	MC836P	A2,32,34,39,45	INTEGRATED CIRCUIT		5							
39	586-153	MC846P	A10,14,18,23, 25,29,33,35,37, 41-44,46	INTEGRATED CIRCUIT		14							
40	586-155	MC862P	A36	INTEGRATED CIRCUIT		1							
41	586-309	F9601	A9	INTEGRATED CIRCUIT		1							
42	586-425	MC853P	A15-17,24,27, 30,38	INTEGRATED CIRCUIT		7							
43	586-442	MC858P	A26,31,1	INTEGRATED CIRCUIT		3							
44	586-450	DM8570	A3,7,19,20,22	INTEGRATED CIRCUIT		5							
45	586-439	DM8820	A40	INTEGRATED CIRCUIT		1							
46	586-412	MC1812P	A21	INTEGRATED CIRCUIT		1							
47	586-302	F9309	A4,8,11,13,28	INTEGRATED CIRCUIT		5							
48	586-303	F9328	A5,6,12	INTEGRATED CIRCUIT		3							
51	119-056	T8003	S1	SWITCH, SPDT, momentary action		1							

X1364296C



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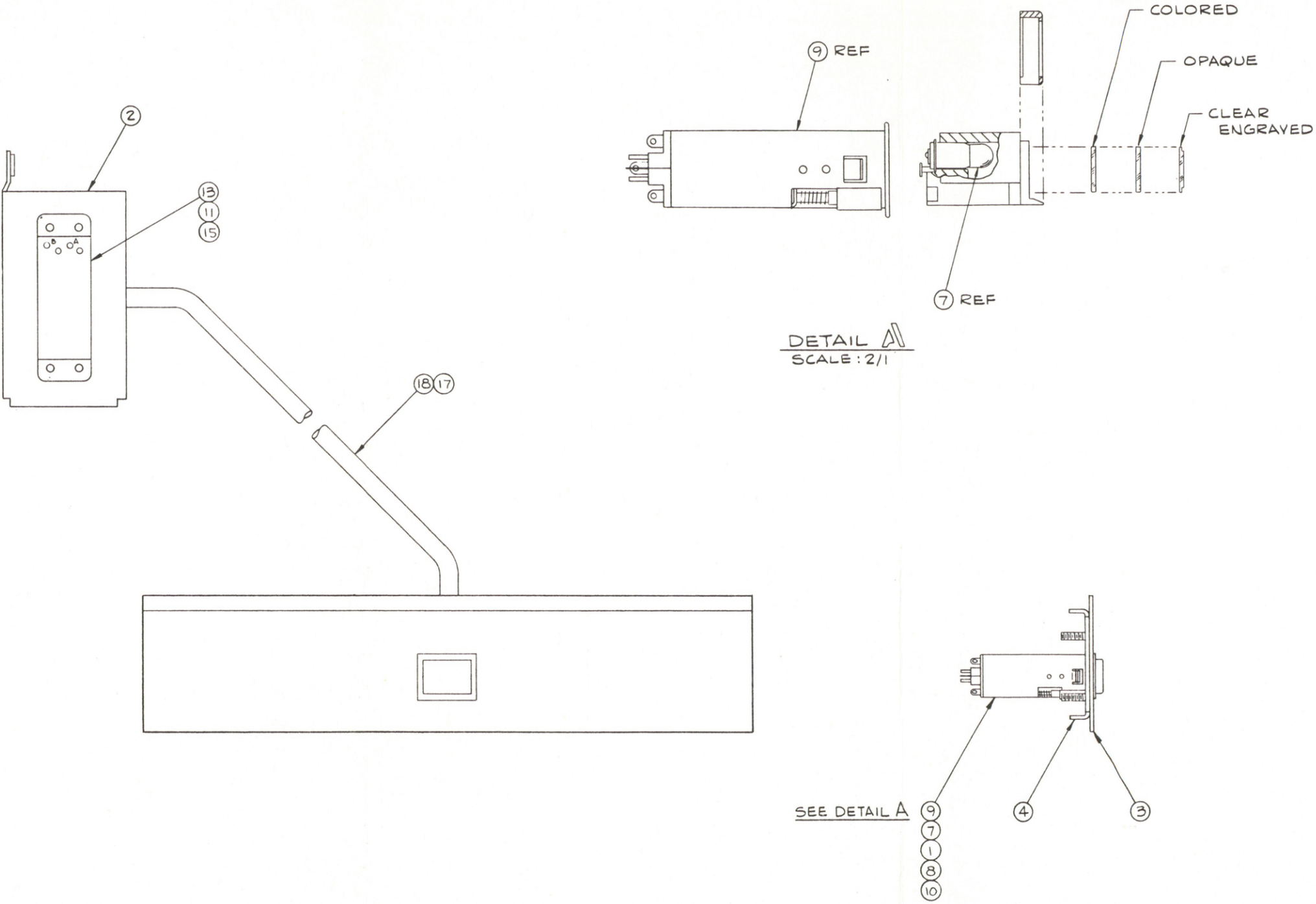
Editor Printed Wiring Assembly (Module 153)  
Drawing No. 1364296C



CONTROL PANEL ASSEMBLY #3-1 (EDITOR)					CATALOG NO. 1369176		SHEET 1 OF 1						
							NHA 1366000						
ITEM NO.	AMPEX PART NO.	VENDOR OR MIL. NO.	SCHEMATIC REFERENCE	PART DESCRIPTION	MFR CODE	QUANTITY REQUIRED PER VERSION							
						-01							
1	1366175-17	DS1, 2		LENS, Front, Engraved		1							
2	1367088-01			BRACKET, Connector Mounting		1							
3	1369177-01			OVERLAY		1							
4	1369178-01			CHASSIS		1							
5	1369179			SCHEMATIC		REF							
7	060-391			LAMP, Incandescent		2							
8	121-047			DISPLAY SCREEN, Full		1							
9	121-048			SWITCH, Pushbutton		1							
10	121-100			FILTER, Full Screen, Green		1							
11	166-110			CONTACT, Pin, 24-26 AWG		A/R							
13	169-613	MS-50-RM-58		CONNECTOR, Burndy		1							

X1369176 -

AMPEX



NOTES.  
1. PART NO. IS 1369176-01

Control Panel Assembly No. 3-1 (Editor)  
Drawing No. 1369176-